Food container (NS)
A-DO Global Co., Ltd.

Category: Food and Beverage
Subcategory: Storage

Number of associated products: 46
This product uses: N/A

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersese?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating</td>
<td>-</td>
<td>Colloid</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 ppm (ug/ml)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
- 

Synthesis Method
- 

Use of Nanotechnology
Concentration information: "Our Nano-silver colloid liquid for each container has 20 ppm(ug/ml), that is for example in 1cc portion from 1 ppm has a 25,000 billionth silver particles included and our each food container of Nano-silver(NS) get a 500,000 billionth silver particles included/ divided.... Each pure-silver colloid liquid & pure-silver master batch contains 27.7mg/kg."

Recommended Uses
Food storage.

Antimicrobial Claims
"Nano-Technology is the real core-technology in the 21st century that makes a pure-silver colloid liquid reduce into 1 billionth with the atomic particles physics to get at 99.9% anti-bacterial effect."

Product Testing Information
Results of research conducted by FITI Testing and research institutes. There are two figures, one is shown below, the other is in the company file in the database.

Company web site: www.adox.info

Sources: All data are derived from internet searches. Source URLs are given where appropriate
Nano Silver Cutting Board
*A-DO Global Co., Ltd.*

**Category:** Food and Beverage  
**Subcategory:** Cooking

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Expected Lifetime</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating</td>
<td>-</td>
<td>Colloid</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Use of Nanotechnology**  
*A silver colloid which gets turned into a "master batch" is coated on the cutting board.*

**Recommended Uses**  
*A cutting board for home use.*

**Antimicrobial Claims**  
"Used pure-silver with nano-technology for all surfaces of the food container, which brings the antibacterial, antibiotic effect by Nano-silver."


**Product Testing Information**  
*Results of research conducted by FITI Testing and research institutes. There are two figures, they are in the company file in the database.*

**Company web site:** [www.adox.info](http://www.adox.info)  
**Company country:** South Korea

**Product web site:** [http://www.adox.info/?doc=shop/item](http://www.adox.info/?doc=shop/item)  

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
## Fabric Softener IRIN

**Aekyung**

<table>
<thead>
<tr>
<th>Category:</th>
<th>Home and Garden</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Cleaning</td>
</tr>
<tr>
<td>Number of associated products:</td>
<td>1</td>
</tr>
<tr>
<td>This product uses:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>-</td>
<td>Nano</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

### Notes

**Structure of Particle and/or Substrate**

- 

**Synthesis Method**

- 

**Use of Nanotechnology**

"Iris(Antibacterial for skin): Nano Silver and TCN ingredient prevent sensitive skin from harmful bacteria and materials. Used for baby clothes and underwear."  

**Recommended Uses**

Fabric Softener for baby clothes and underwear.

**Antimicrobial Claims**

"Nano Silver and TCN ingredient prevent sensitive skin from harmful bacteria and materials."  

**Product Testing Information**

- 

**Company web site:** [www.aekyung.co.kr](http://www.aekyung.co.kr)  
**Company country:** South Korea  
**Product web site:** [http://www.aekyung.co.kr/eng/product/laundry IRIN](http://www.aekyung.co.kr/eng/product/laundry IRIN)  
**Product web site:** [http://www.aekyung.co.kr/eng/product/laundry IRIN](http://www.aekyung.co.kr/eng/product/laundry IRIN)

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
### 100% cotton sheet sets

**AgActive**

<table>
<thead>
<tr>
<th>Category:</th>
<th>Home and Garden</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Bedding / Pillows</td>
</tr>
<tr>
<td>Number of associated products:</td>
<td>1</td>
</tr>
<tr>
<td>This product uses:</td>
<td>SilverSure</td>
</tr>
</tbody>
</table>

#### Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder</td>
<td>25 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>life of product</td>
</tr>
</tbody>
</table>

#### Notes

**Structure of Particle and/or Substrate**

It appears to be nano silver dust / powder.

**Synthesis Method**

- "[O]ur patent pending process bonds the silver like a dye to the cloth."
- "AgActive socks ship with at least a hundred times more silver in them than they actually need to work."
  AgActive, "How to get the most out of your socks," http://www.agactive.co.uk/ (accessed June 11, 2007).

**Recommended Uses**

Home bedding and sheets.

**Antimicrobial Claims**

"Our sheets have been proven to kill over 99% of bacteria including MRSA (see our test results)." (retrieved 06.11.2007) test results found in AgActive folder

**Product Testing Information**

Testing is from MONASH University, Micromon Dept. of Microbiology, Faculty of Medicine, Nursing and Health Sciences (document found in company folder in Database).

"The testing was performed according to the EMPA standard method SNV 195 920-1994 for bacteria. The protocols were used in accordance with this standard, with the testing being performed in triplicate."


**Company web site:** www.agactive.co.uk
**Product web site:** http://www.agactive.co.uk/index.

**Company country:** United Kingdom

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Bath and sports towels
AgActive

Category: Health and Fitness
Subcategory: Sporting Goods
This product uses: SilverSure

Number of associated products: 1

Product Info

Type/Form Particles Size Classification Rate of Ag+ Release Expected Lifetime
Powder 25 nm Nano - life of product

Conc. of Nano Ag Rate of Ag+ Release
-

Is the use disperseve?
No

Structure of Particle and/or Substrate
It appears to be nano silver dust/powder.

Synthesis Method

Use of Nanotechnology
"[O]ur patent pending process bonds the silver like a dye to the cloth."
"AgActive socks ship with at least a hundred times more silver in them than they actually need to work."
AgActive, "How to get the most out of your socks," http://www.agactive.co.uk/ (accessed June 11, 2007).

Recommended Uses
Gym and bath towels.

Antimicrobial Claims
"Our bath towels stay bacteria and odour free no matter how long between washes."
AgActive, "Bath and sports towels," http://www.agactive.co.uk/index.cfm/fuseaction/product.display/Product_ID/7/htm (accessed June 11, 2007).

Product Testing Information
"All our products have undergone extensive laboratory tests to international standards, confirming their effectiveness against bacteria such as Staphylococcus aureus, Bacillus megaterium, Bacillus subtilis, Escherichia coli, Pseudomonas fluorescens and Methicillin-resistant Staphylococcus Aureus (MRSA). In all cases the results show that greater than 99.9% of all bacteria are destroyed within 24 hours."
AgActive, "What testing has been carried out to prove the antibacterial effectiveness?," http://www.agactive.co.uk/ (accessed June 11, 2007).

Company web site: www.agactive.co.uk
Product web site: http://www.agactive.co.uk/index.

Company country: United Kingdom

Notes

This product uses:
SilverSure
Number of associated products: 1

Structure of Particle and/or Substrate
It appears to be nano silver dust/powder.

Synthesis Method

Use of Nanotechnology
"[O]ur patent pending process bonds the silver like a dye to the cloth."
"AgActive socks ship with at least a hundred times more silver in them than they actually need to work."
AgActive, "How to get the most out of your socks," http://www.agactive.co.uk/ (accessed June 11, 2007).

Recommended Uses
Gym and bath towels.

Antimicrobial Claims
"Our bath towels stay bacteria and odour free no matter how long between washes."
AgActive, "Bath and sports towels," http://www.agactive.co.uk/index.cfm/fuseaction/product.display/Product_ID/7/htm (accessed June 11, 2007).

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AgActive, "What testing has been carried out to prove the antibacterial effectiveness?," http://www.agactive.co.uk/ (accessed June 11, 2007).

Company web site: www.agactive.co.uk
Product web site: http://www.agactive.co.uk/index.

Company country: United Kingdom

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Company web site: www.agactive.co.uk
Product web site: http://www.agactive.co.uk/
Company country: United Kingdom

Structure of Particle and/or Substrate
It appears to be nano silver dust/powder.

Synthesis Method
"[O]ur patent pending process binds the silver like a dye to the cloth."

Use of Nanotechnology
"AgActive socks ship with at least a hundred times more silver in them than they actually need to work."
AgActive, "How to get the most out of your socks," http://www.agactive.co.uk/ (accessed June 11, 2007).

Recommended Uses
Socks, towels and sheet sets.

Antimicrobial Claims
"SilverSure uses state of the art Silver Nano Technology that gives our products anti-bacterial and anti-fungal protection against everything from foot odour to Athlete's foot."
AgActive, "About AgActive," http://www.agactive.co.uk/ (accessed June 11, 2007).

"SilverSure, the technology applied to our socks is based on silver, which is naturally anti microbial so it kills the bacteria that causes foot odour (it doesn't just hide it). Silver is also anti fungal (so it kills the fungus that causes athlete's foot)."

"Our antibacterial socks are 100% guaranteed to kill bacteria and control foot odor."
AgActive, "Will they work?," http://www.agactive.co.uk/ (accessed January 15, 2008).

Product Testing Information
"All our products have undergone extensive laboratory tests to international standards, confirming their effectiveness against bacteria such as Staphylococcus aureus, Bacillus megaterium, Bacillus subtilis, Escherichia coli, Pseudomonas fluorescens and Methicillin-resistant Staphylococcus Aureus (MRSA). In all cases the results show that greater than 99.9% of all bacteria are destroyed within 24 hours."
AgActive, "What testing has been carried out to prove the antibacterial effectiveness?," http://www.agactive.co.uk/ (accessed June 11, 2007).

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Socks
AgActive

Category: Health and Fitness
Subcategory: Clothing

Number of associated products: 5
This product uses: SilverSure

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder</td>
<td>25 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>life of product</td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
It appears to be nano silver dust / powder.

Synthesis Method

Use of Nanotechnology

"[O]ur patent pending process binds the silver like a dye to the cloth."

"AgActive socks ship with at least a hundred times more silver in them than they actually need to work. This silver 'dust' is invisible but extremely effective at disinfecting shoes of bacteria and fungi. When you first wash the socks, the silver levels will drop to normal. Don’t miss out on the opportunity to take advantage of the extra dust they are shipped with: wear the socks in every pair of problem shoes you own before you first wash the socks. The extra dust will drop out and clean the inside of your shoes. Remember: you can wear AgActive socks in a new pair of shoes every day and they won’t become smelly. You don’t need to wash them unless they pick up visible dirt." (retrieved 09.10.2007)
AgActive, "How to get the most out of your socks," http://www.agactive.co.uk/ (accessed June 11, 2007).

Recommended Uses

socks

Antimicrobial Claims

"SilverSure uses state of the art Silver Nano Technology that gives our products anti-bacterial and anti-fungal protection against everything from foot odour to Athlete's foot."
AgActive, "About AgActive," http://www.agactive.co.uk/ (accessed June 11, 2007).

"SilverSure, the technology applied to our socks is based on silver, which is naturally anti microbial so it kills the bacteria that causes foot odour (it doesn't just hide it). Silver is also anti fungal (so it kills the fungus that causes athlete's foot)"

"Our antibacterial socks are 100% guaranteed to kill bacteria and control foot odor."
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Product Testing Information

"All our products have undergone extensive laboratory tests to international standards, confirming their effectiveness against bacteria such as Staphylococcus aureus, Bacillus megaterium, Bacillus subtilis, Escherichia coli, Pseudomonas fluorescens and Methicillin-resistant Staphylococcus Aureus (MRSA). In all cases the results show that greater than 99.9% of all bacteria are destroyed within 24 hours."
AgActive, "What testing has been carried out to prove the antibacterial effectiveness?", http://www.agactive.co.uk/ (accessed June 11, 2007).

Company web site: www.agactive.co.uk
Product web site: http://www.agactive.co.uk/index.

Company country: United Kingdom

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Germ Slayer
Aluwe, LLC

<table>
<thead>
<tr>
<th>Category:</th>
<th>Food and Beverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Supplements</td>
</tr>
<tr>
<td>Number of associated products:</td>
<td>1</td>
</tr>
<tr>
<td>This product uses:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

## Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
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</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>0.65 nm</td>
<td>Colloid</td>
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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
<td>-</td>
</tr>
<tr>
<td>20 ppm</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

## Notes

### Structure of Particle and/or Substrate

The silver is a minimum 99.99% pure and other minerals.

"Extremely tiny. The size of 2 atoms."


### Synthesis Method

Use of Nanotechnology

Colloidal silver is combined with other minerals to form a solution.

### Recommended Uses

As a mineral supplement

"At the first sign of infection (sore throat, fever, headache, stomach pain, etc) begin taking 1 tablespoon of Germ slayer every 4-6 hours till the pain has been gone for 1 full cycle"


### Antimicrobial Claims

"Kills virus and bacteria—none have been shown to survive in contact with true high quality silver.... Germ Slayer kills only single cell organisms. The body is composed of multi-cell entities, therefore it only kills those things which do not belong in your body.

# Extremely tiny. The size of 2 atoms. Literally penetrates everything in the body to find and kill bacteria, virus and fungus.... Aluwe has taken Germ Slayer to Africa with great success in the battle with malaria and TB"


### Product Testing Information

- Company web site: www.aluwe.com
- Product web site: http://www.aluwe.com/products.html#germslayer

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**Structure of Particle and/or Substrate**
It is composed of colloidal silver and high purity water.

**Synthesis Method**

**Use of Nanotechnology**
A colloidal silver in which, "[t]he unique structure/composition of the products, inherently results from the already patented manufacturing process."

**Recommended Uses**
"The potential applications of this technology are vast and far reaching into many markets worldwide. ABL’s product lines currently include dietary supplements and Government approved hospital and home disinfectants."

**Antimicrobial Claims**
"Most work by chemical action, meaning that they have to have direct contact with microbes to have any positive effect. American Biotech Labs (ABL) has engineered a new technology. This new technology kills bacteria by catalytic action, not by chemical action. Because of this technology, ABL can get kill rates on bacteria and other pathogens that other silver products cannot match."

**Product Testing Information**
"Tests have been directed by one of the leading materials science laboratory in the world at the Pennsylvania State University, under the personal direction of Professor Rustum Roy, who is regarded as one of the top materials scientists in the world. Testing was also performed by distinguished scientists at Arizona State University (and other locations), all of which have been under the direction of Professor Roy....
Over 50 studies have been completed to date. Work completed thus far includes seven safety studies, antibiotic comparison studies, antibiotic additive studies, thousands of bacterial tests, numerous tests against virus including some flu virus, and numerous studies against other pathogens like yeast and black mold. Testing also includes four studies with one of the American Biotech Labs’ supplement products against the malaria protozoa, and independent human studies from four hospitals in Africa.

The results of the majority of these independent studies have not been released to the public; however, some of the data has been released to certain groups, as well as in a congressional testimony (April 2005). Some test work has also been released in other countries where the foreign government allows citizens to obtain positive information on the non-drug-related products they wish to utilize."
# ASAP Health Max 30

## American Biotech Labs

### Category:
Food and Beverage

### Subcategory:
Supplements

### Type/Form:
Liquid

### Particle Size:
10 nm

### Conc. of Nano Ag:
30 ppm

### Rate of Ag+ Release:
-

### Expected Lifetime:
-

### Is the use dispersive?
Yes

## Product Info

<table>
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<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>10 nm</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Structure of Particle and/or Substrate
It is composed of colloidal silver and high purity water.

### Synthesis Method

### Use of Nanotechnology
It is a colloidal silver in which, “[t]he unique structure/composition of the products, inherently results from the already patented manufacturing process.”


### Recommended Uses
To be used as a supplement.

### Antimicrobial Claims
"William D. Moeller Chairman of Clifton and President of American Biotech Labs (ABL) was invited to testify before the Congressional House International Relations Committee, Subcommittee on Africa, Global Human Rights, and International operations. Mr. Moeller testified concerning the ability (according to three completed human studies) of ABL products to help patients recover from malaria in an average of just 5 days."


### Product Testing Information
* Proven Immune Support
* Found Effective in 4 Independent Human Studies
* Backed by Science

American Biotech Labs is pleased to announce that the company has recently filed a new patent application containing new and exciting data and results. Laboratory work from several U.S.-based institutions has verified that American Biotech Labs’ silver products possess some very unique and important physical properties which appear to be quite different from other commercially available colloidal silvers. Further, significant new uses and product modifications have also been discovered and included in the patent filing...

This unique structure/composition of American Biotech Labs’ silver products results in different efficacy when compared to other silver products. Tests have been directed by one of the leading materials science laboratories in the world at Pennsylvania State University, under the personal direction of Professor Rustum Roy, who is regarded as one of the top materials scientists in the world. Testing was also performed by distinguished scientists at Arizona State University and the University of Arizona, all of which have been under the direction of Professor Roy. This work may help explain why American Biotech Labs’ products are so much more effective at very low concentration levels of silver, when compared to other silver products, some of which contain hundreds-of-times higher concentrations of silver.”


### Company website:
[www.americanbiotechlabs.com](http://www.americanbiotechlabs.com)

### Product website:
[http://www.americanbiotechlabs.com](http://www.americanbiotechlabs.com)

### Company country:
USA

### Sources:
All data are derived from internet searches. Source URLs are given where appropriate.
ASAP Solution Plus
American Biotech Labs

Category: Food and Beverage
Subcategory: Supplements

Number of associated products: 1
This product uses: N/A

Type/Form | Particle Size | Classification | Is the use dispersible?
---|---|---|---
Liquid | 10 nm | Colloid | Yes

Conc. of Nano Ag | Rate of Ag+ Release | Expected Lifetime
---|---|---
22 ppm | - | 2 yrs

Structure of Particle and/or Substrate
It is composed of colloidal silver and high purity water.

Synthesis Method

Use of Nanotechnology
"It is a colloidal silver in which, "[t]he unique structure/composition of the products, inherently results from the already patented manufacturing process."

Recommended Uses
"It is designed for those people who feel rundown and decide that they need some extra-strength help. According to government guidelines on silver safety, a normal sized adult could safely consume up to four teaspoons of the ASAP Solution Plus product every day of their entire life, with no adverse effects. Extra-strength and safe to use!"

Antimicrobial Claims
"Most work by chemical action, meaning that they have to have direct contact with microbes to have any positive effect. American Biotech Labs (ABL) has engineered a new technology. This new technology kills bacteria by catalytic action, not by chemical action. Because of this technology, ABL can get kill rates on bacteria and other pathogens that other silver products cannot match."

Product Testing Information
"Tests have been directed by one of the leading materials science laboratory in the world at the Pennsylvania State University, under the personal direction of Professor Rustem Roy, who is regarded as one of the top materials scientists in the world. Testing was also performed by distinguished scientists at Arizona State University (and other locations), all of which have been under the direction of Professor Roy.... Over 50 studies have been completed to date. Work completed thus far includes seven safety studies, antibiotic comparison studies, antibiotic additive studies, thousands of bacterial tests, numerous tests against virus including some flu virus, and numerous studies against other pathogens like yeast and black mold. Testing also includes four studies with one of the American Biotech Labs' supplement products against the malaria protozoa, and independent human studies from four hospitals in Africa.

The results of the majority of these independent studies have not been released to the public; however, some of the data has been released to certain groups, as well as in a congressional testimony (April 2005). Some test work has also been released in other countries where the foreign government allows citizens to obtain positive information on the non-drug-related products they wish to utilize.


Company web site: www.americanbiotechlabs.com
Product web site: http://www.americanbiotechlabs.com/ASAPplus.html
Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
ASAP-AGX-32
American Biotech Labs

Category: Home and Garden  Number of associated products: 1
Subcategory: Cleaning  This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating &amp; Spray</td>
<td>10 nm</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
<td>2 yrs</td>
</tr>
<tr>
<td>32 ppm</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
"A preferred embodiment of the present invention is directed to compositions comprising 5 to 40 ppm silver, said silver being primarily elemental silver, 1 to 3 wght % hydrogen peroxide, and water. A preferred embodiment of the present invention is the use, and method of use, of compositions comprising 10 to 40 ppm silver and 1 to 3 wght % hydrogen peroxide in water as antimicrobial agents." (from the US Patent 7,135,195)

Synthesis Method

Use of Nanotechnology
A solution of water, hydrogen peroxide and nano silver are used as a disinfecting agent.

Recommended Uses
"ASAP-AGX-32% can be used to disinfect hard surfaces, including: walls, tables, chairs, beds, wheel chairs, door handles, hand rails, countertops, light fixtures, floors, bathrooms toilet seats, urinals, public phones, desks, computer tables, airplanes and helicopters and any other hard non-porous surface. The surfaces include those made of glass, porcelain, glazed ceramic, enameled, painted, and also metal."

Antimicrobial Claims
"Full broad-spectrum disinfectant."

Product Testing Information
"In testing, ASAP-AGX-32% was able to kill bacteria with just a 10 minute contact time. It killed deadly bacteria, including gram-negative, gram-positive and even nosocomial (hospital mutated) pathogens."

Company web site: www.americanbiotechlabs.com  Company country: USA
Product web site: http://www.americanbiotechlabs.com/asapAGX32.html

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
### Nano-silver Infused Gold Plated Curling Irons

**Andis Company, Inc.**

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Personal Care</td>
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</tbody>
</table>

**Number of associated products:** 7  
**This product uses:** N/A

### Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
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</thead>
<tbody>
<tr>
<td>-</td>
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<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
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<td></td>
</tr>
</tbody>
</table>

### Notes

#### Structure of Particle and/or Substrate

- 

#### Synthesis Method

- 

#### Use of Nanotechnology

"# Nano-Silver infused "Real Gold-Plated" barrels provide maximum heat for curling and straightening. # Nano-Silver infusion of "Real Silver" kills bacteria."


#### Recommended Uses

**Hair iron.**

#### Antimicrobial Claims

"Silver is a natural antibiotic," says Fred Koeller, Vice President of Marketing at Andis Company. “Nano-silver infusion into the barrel of the curling iron eliminates the possibility of transferring bacteria from one customer to the next. The gold plating on the barrels ensures that they will stay bright and won’t tarnish. Silver and gold combine well for these professional curling irons.” The antibiotic properties of silver help protect against infections. By acting as a catalyst, silver suffocates bacteria, viruses and fungi by disabling the enzyme they need to metabolize oxygen."


#### Product Testing Information

**Company web site:** www.andis.com  
**Product web site:** http://www.andis.com/USA/products.asp?  
**Company country:** USA

---

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
## Milk Bottle

*BabyDream Co., Ltd.*

<table>
<thead>
<tr>
<th>Category:</th>
<th>Goods for Children</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Basics</td>
</tr>
<tr>
<td>Number of associated products:</td>
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<tr>
<td>This product uses:</td>
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### Product Info

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</tr>
</tbody>
</table>

### Structure of Particle and/or Substrate

- 

### Synthesis Method

- 

### Use of Nanotechnology

- 

### Recommended Uses

*Baby milk bottle that "Even without any separate sterilization it always maintains 99.9% germ suppression and deodorization and freshness thus prevents secondary infection by virus."


### Antimicrobial Claims

"NANO Silver GS (GS stands for good system) milk bottle and silver Nano aristocratic mug cup has been developed by latest technology of atom unit Nano poly(1/1 billion millimeter) thus assures health of babies and little infant susceptible infection by pathogenic bacteria and are weak in immunology.) Even without any separate sterilization it always maintains 99.9% germ suppression and deodorization and freshness thus prevents secondary infection by virus."


### Product Testing Information

"No detection of environmental hormone-milk bottle, tit and other-9 kinds developed Passed safety test for milk bottle and tits etc. (Nationally authorized test agency)."


### Notes

- 

### Company web site

www.babydream21.co.kr

### Product web site


### Company country

South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Mug Cup
BabyDream Co., Ltd.

Category: Food and Beverage
Subcategory: Storage
Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disposable?</th>
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</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

Notes

Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology

Recommended Uses

Baby mug cup that "Even without any separate sterilization it always maintains 99.9% germ suppression and deodorization and freshness thus prevents secondary infection by virus."

Antimicrobial Claims

"NANO Silver GS (GS stands for good system) milk bottle and silver Nano aristocratic mug cup has been developed by latest technology of atom unit Nano poly (1/1 billion millimeter) thus assures health of babies and little infant susceptible infection by pathogenic bacteria and are weak in immunology.) Even without any separate sterilization it always maintains 99.9% germ suppression and deodorization and freshness thus prevents secondary infection by virus."

Product Testing Information

"No detection of environmental hormone-milk bottle, tit and other-9 kinds developed Passed safety test for milk bottle and tits etc. (Nationally authorized test agency)."

Company web site: www.babydream21.co.kr

Company country: South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate
<table>
<thead>
<tr>
<th>Category</th>
<th>Goods for Children</th>
<th>Subcategory</th>
<th>Toys and Games</th>
<th>Number of associated products</th>
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<th>This product uses</th>
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**Product Info**

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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
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**Notes**

**Structure of Particle and/or Substrate**
-  

**Synthesis Method**
-  

**Use of Nanotechnology**
-  

**Recommended Uses**
Chew toy for babies.

**Antimicrobial Claims**
-  

**Product Testing Information**
-  

**Company web site**: www.babydream21.co.kr  
**Company country**: South Korea  

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
## Beiersdorf AG Silver Technology

**Category:** Medical Applications  
**Subcategory:** Dressing  
**Number of associated products:** 1  
**This product uses:** N/A

### Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
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<table>
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<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
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<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>1-72 hrs</td>
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</table>

### Notes

**Structure of Particle and/or Substrate**
"Polyethylene net with metallic silver (Ag)" (from picture at Hansaplast)  
"The metallic silver, contained in the polyethylene net in the wound pads."


**Synthesis Method**

**Use of Nanotechnology**

A polyethylene net is either coated with or spun with silver nanoparticles. Moisture from a wound or gel allows the release and migration of Ag+ into the wound area. It "contains silver (nano) particles within a polyurethane gel wound pad (moist wound healing)."


**Recommended Uses**

Wound dressing and care.

**Antimicrobial Claims**

"Throughout the last centuries silver has been used as an antimicrobial agent and the efficacy and safety of this metal has been well established... The advantages of silver as an antiseptic • Well established efficacy • Proven broad-spectrum antiseptic effect • Pro-healing effect • Negligible resistance" (retrieved 07.18.2007)  

"The Hansaplast med silver wound pad with its silver ions acts effectively against a broad spectrum of germs and reduces the risk of wound infection. Hansaplast med takes care of you and your injuries."


**Product Testing Information**

**Company web site:** [www.beiersdorf.com](http://www.beiersdorf.com)  
**Product web site:**  
**Company country:** Germany

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**Elastoplast® FAST SILVERHEALING™ with P.U.R. ® Gel**

**Category:** Medical Applications  
**Subcategory:** Dressing  
**Number of associated products:** 1  
**This product uses:** Beiersdorf AG Silver Technology

### Product Info

<table>
<thead>
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<th>Rate of Ag+ Release</th>
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</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>2-3 days</td>
</tr>
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</table>

### Structure of Particle and/or Substrate

"The metallic silver, contained in the polyethylene net in the wound pads."


### Use of Nanotechnology

A polyethylene net is either coated with or spun with silver nanoparticles. Moisture from a wound or gel allows the release and migration of Ag+ into the wound area. It "contains silver (nano) particles within a polyurethane gel wound pad (moist wound healing)."


### Recommended Uses

Wound dressing and care.

### Antimicrobial Claims

"The prophylactic application of silver, a non-toxic, effective antimicrobial agent, is useful for the treatment of acute wounds – especially when the risk of infection exists or is suspected. The active ingredient prevents the growth of a broad spectrum of bacteria and fungi. At the same time, silver is a very skin-friendly and highly compatible agent to which – unlike many antibiotics – bacteria rarely build up resistance."

The innovative wound pad (patent pending) of new Elastoplast® SILVERHEALING™ bandages is either coated with a net of metallic silver (for dry wound healing) or contains silver particles within a polyurethane gel wound pad (moist wound healing). In both cases, the constantly released silver ions rapidly penetrate bacterial membranes and interact with enzymes and other proteins in bacteria, destroying the germ's cell structure. The colonization of bacteria and consequently the risk of infection are reduced.


### Product Testing Information

**Company web site:** www.beiersdorf.com  
**Product web site:** http://www.elastoplast.ca/index.php?p=63&lang=2  
**Company country:** Germany

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Elastoplast® SilverHealing™
Beiersdorf AG

**Category:** Medical Applications  
**Subcategory:** Dressing

**Number of associated products:** 1  
**This product uses:** Beiersdorf AG Silver Technology

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**Product Info**

<table>
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<th>Particle Size</th>
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<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

**Structure of Particle and/or Substrate**

“The metallic silver, contained in the polyethylene net in the wound pads.”


**Synthesis Method**

- Use of Nanotechnology

A polyethylene net is either coated with or spun with silver nanoparticles. Moisture from a wound or gel allows the release and migration of silver into the wound area.

**Recommended Uses**

Wound dressing and care.

**Antimicrobial Claims**

“The prophylactic application of silver, a non-toxic, effective antimicrobial agent, is useful for the treatment of acute wounds – especially when the risk of infection exists or is suspected. The active ingredient prevents the growth of a broad spectrum of bacteria and fungi. At the same time, silver is a very skin-friendly and highly compatible agent to which – unlike many antibiotics – bacteria rarely build up resistance...

The innovative wound pad (patent pending) of new Elastoplast® SILVERHEALING™ bandages is either coated with a net of metallic silver (for dry wound healing) or contains silver particles within a polyurethane gel wound pad (moist wound healing). In both cases, the constantly released silver ions rapidly penetrate bacterial membranes and interact with enzymes and other proteins in bacteria, destroying the germ's cell structure. The colonization of bacteria and consequently the risk of infection are reduced.”


---

**Product Testing Information**

**Company web site:** [www.beiersdorf.com](http://www.beiersdorf.com)  
**Company country:** Germany

---

**Notes**

All data are derived from internet searches. Source URLs are given where appropriate.
Hansaplast® med Silver Technology
Beiersdorf AG

Category: Medical Applications
Subcategory: Dressing
Number of associated products: 1
This product uses: Beiersdorf AG Silver Technology

Product Info

<table>
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<tr>
<th>Type/Form</th>
<th>Particle Size</th>
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</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>Nano</td>
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</tr>
</tbody>
</table>

Structure of Particle and/or Substrate
"The metallic silver, contained in the polyethylene net in the wound pads."

Synthesis Method
- Use of Nanotechnology
A polyethylene net is either coated with or spun with silver nanoparticles. Moisture from a wound or gel allows the release and migration of silver into the wound area.

Recommended Uses
Wound dressing and care.

Antimicrobial Claims
"Throughout the last centuries silver has been used as an antimicrobial agent and the efficacy and safety of this metal has been well established....
The advantages of silver as an antiseptic • Well established efficacy • Proven broad-spectrum antiseptic effect • Pro-healing effect • Negligible resistance" (retrieved 07.18.2007)

"The Hansaplast med silver wound pad with its silver ions acts effectively against a broad spectrum of germs and reduces the risk of wound infection. Hansaplast med takes care of you and your injuries."

Product Testing Information
- Company web site: www.beiersdorf.com
Product web site:
## Hansaplast® med Silver Technology with P.U.R. ® Gel

*Beiersdorf AG*

<table>
<thead>
<tr>
<th>Category:</th>
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<tbody>
<tr>
<td>Subcategory:</td>
<td>Dressing</td>
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### Number of associated products: 1

### This product uses: Beiersdorf AG Silver Technology

### Product Info

<table>
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<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>2-3 days</td>
</tr>
</tbody>
</table>

### Structure of Particle and/or Substrate

"Polyethylene net with metallic silver (Ag)" (from picture at Hansaplast)

"The metallic silver, contained in the polyethylene net in the wound pads."


### Synthesis Method

- Use of Nanotechnology

A polyethylene net is either coated with or spun with silver nanoparticles. Moisture from a wound or gel allows the release and migration of silver into the wound area.

### Recommended Uses

Wound dressing and care.

### Antimicrobial Claims

"Throughout the last centuries silver has been used as an antimicrobial agent and the efficacy and safety of this metal has been well established.... The advantages of silver as an antiseptic • Well established efficacy • Proven broad-spectrum antiseptic effect • Pro-healing effect • Negligible resistance" (retrieved 07.18.2007)


"The Hansaplast med silver wound pad with its silver ions acts effectively against a broad spectrum of germs and reduces the risk of wound infection. Hansaplast med takes care of you and your injuries."


### Product Testing Information

- **Company web site:** www.beiersdorf.com
- **Product web site:**

### Sources

All data are derived from internet searches. Source URLs are given where appropriate.
Nanometer-Silver Foam Condom
Blue Cross Bio-Medical Co., Ltd.

Category: Health and Fitness
Subcategory: Personal Care
Number of associated products: 1
This product uses: N/A

Product Info

<table>
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<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
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<tr>
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</tbody>
</table>

Structure of Particle and/or Substrate
"The formulated concentrate takes polyvinyl alcohol resin as its basic material and nano silver as its main components and with compound of surfactant octyl phenoxy -RH4, tween-20, sapn-60,polyethylene glycol 400, deionized water as its auxiliary materials."

Synthesis Method

Use of Nanotechnology
"The formulated concentrate takes polyvinyl alcohol resin as its basic material and nano silver as its main components and with compound of surfactant octyl phenoxy -RH4, tween-20, sapn-60,polyethylene glycol 400, deionized water as its auxiliary materials."

Recommended Uses
"With introduced American scientific research achievement and advanced technology of nanometer-silver and physical foaming. That is double-barrier technology, white and fine foam is sprayed into vagina to bring the effects of integration of conception control, antibiosis and lubrication into a whole."
Scope of Application
It is applicable with the effects of conception control, antibiosis and lubrication. *

Antimicrobial Claims

Product Testing Information

Company web site: www.bcbmn.com
Product web site: http://www.bcbmcn.com/Products/p_1_02.htm

Company country: China

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Fresh Box Silver Nanoparticle Food Storage Containers

BlueMoonGoods LLC

Category: Food and Beverage
Subcategory: Storage
Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
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<th>Rate of Ag+ Release</th>
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</tbody>
</table>

Notes

Structure of Particle and/or Substrate
- 

Synthesis Method
- 

Use of Nanotechnology
"Nanoparticles of silver are permanently infused into the material that comes in contact with the food and are not released into the food."
"Fresh Box NanoSilver Food Containers are odor and air impermeable, made from FDA approved heat resistant polypropylene resin for lasting durability."

Recommended Uses
Home food storage.

Antimicrobial Claims
"The new silver nanoparticle Fresh Box super airtight food storage containers can reduce bacteria by as much as 99.9%. It's not a miracle, it's the silver. Your food stays fresher longer so you throw away less. (How much cash do you throw in the trash?) The naturally anti-fungal, anti-bacterial and anti-microbial properties of the finely dispersed nanosilver particles permanently imbedded in the containers will save you money while helping insure you and your family enjoy safer, fresher, healthier, tastier food."

Product Testing Information
Korea's Testing and Research Institute for Chemical Industry and FITI Testing & Research Institute. KOTRIC test results (pdf file). This is included in the BlueMoonGoods folder
KOTRIC Certification Center (KOTRIC-CC)
#725, KFSB Bldg., 16-2 Yoido-dong, Youngdeungpo-gu, SEOUL 150-740
Tel.: + 82 2 671 1522
Fax: + 82 2 671 1524
Web: www.kotricqa.or.kr
KOTRIC-CC has been accredited by:
- Korea Accreditation Board

Company web site: www.bluemoongoods.com
Product web site: 

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate
Carrier Pure Dew Multi Split Aircons

Category: Appliances
Subcategory: Heating, Cooling and Air

Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
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<td>No</td>
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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology

"Carrier Pure Dew Series now comes with basic filters (electrostatic & active carbon filter) plus the Nano Photocatalytic filter that reduces Titanium Dioxide (TiO2) into Nano-size. This filter is more efficient than a normal photocatalytic in terms of performance (i.e. anti-bacteria, de-oder, de-VOC). Nano Silver filter has the power to sterilize and deodorize, while the Nano Technology applied to the silver anti-bacterial coating has anti-bacterial and deodorizing effects. Nano Photocatalytic and Nano Silver filters get rid of unpleasant smell and smoke, as well as harmful bacteria and viruses, making air safe and healthy."


Antimicrobial Claims

"Kills up to 99.9% of bacteria
Suppress their respiration and inhibits cell growth!

Benefits of Nano-Silver Filter:

* Environment friendly and non toxic
* Harmless ot human body
* Multi-functions such as anti-bacteria, sterilization, anti-fungus, deodorization and radiation of infar-red ray
* Excellent lasting effects
* No resistance to virus
* Broad range of anti-bacteria spectrum
* Economical processing
* Excellent cleaning capability by the filtration of Nano Particles."


Recommended Uses

Residential air filtration.

Product Testing Information

Company web site: www.carrier.com.sg

Company country: Singapore

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
### Champion® O2 Cool™

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 8  
**This product uses:** N/A

### Product Info

<table>
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<tr>
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<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
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<tbody>
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<td></td>
<td></td>
<td>Nano</td>
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</tr>
</tbody>
</table>

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</tr>
</thead>
<tbody>
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<td>-</td>
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</table>

### Notes

**Structure of Particle and/or Substrate**

It uses nano silver and the fabric content ranges from combinations of: Nylon; Lycra® Spandex, spandex, polyester, and cotton.

**Synthesis Method**

-  

**Use of Nanotechnology**

Nanosilver is incorporated into this fabric to provide antibacterial protection.

**Recommended Uses**

Clothing and underwear

**Antimicrobial Claims**

"This collection features moisture management fabrics with strategically placed venting mesh panels, aerodynamic seaming and anti-microbial treatments for the ultimate in cool, dry comfort. O2Cool™ sports bras offer support for high-impact activities."


"Antimicrobial: Our antimicrobial lining fights the growth of odor-causing bacteria, mold and mildew on the garment."


**Product Testing Information**

<table>
<thead>
<tr>
<th>Company web site:</th>
<th><a href="http://www.championusa.com">www.championusa.com</a></th>
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<tbody>
<tr>
<td>Product web site:</td>
<td><a href="http://www.championo2cool.com/technology.asp">http://www.championo2cool.com/technology.asp</a></td>
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**Company country:** USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
NanoSil™ - 80 Swimming Pool Algaecide
Conseal International, Inc.

Category: Home and Garden
Subcategory: Cleaning

Type/Form: Liquid
Particle Size: -
Conc. of Nano Ag: 800 ppm
Rate of Ag+ Release: -
Classification: Nano
Expected Lifetime: -

Is the use disperseve? Yes

Structure of Particle and/or Substrate
It contains 0.80% elemental nano-silver and 99.20% inert ingredients (8.33lbs./gallon).

Synthesis Method
"The silver in NanoSil™ is essentially in nonionic form. Dilution in the pool and the concentration and exposure to chlorine converts the silver to a true ionic form, which becomes the effective algaecide. Because the ionic silver is not present when the product is added to the pools, but becomes available after dilution to pool concentrations, silver chloride does not precipitate locally. At pool concentration of silver at .1 ppm, the solubility of silver chloride is sufficiently great so that it will not precipitate."


Recommended Uses
Pool cleaner that prevents algae growth and bio-slime buildup.

Antimicrobial Claims
"At the recommended levels, NanoSil™-80 will kill most types of algae including Phormidium (Black Algae). However, it must be acknowledged that surfaces which have many layers of algae are being killed from the outside in, for maximum effectiveness, the dead algae should be brushed away to expose new surfaces. The properties of ionic silver are such that it will be adsorbed on pool wall surfaces. When the concentration of silver in solution falls to low levels, then the silver will be desorbed from the surfaces in effective algaecidal concentrations. This property of surface activation is a unique phenomenon of NanoSil™-80 silver, and provides the assurance there is at all times a non-volatile, highly effective, algaecide in the pool."


Product Testing Information

Company web site: www.nanosilproducts.com

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**NanoSil™ -10 Dietary Supplement**

*Conseal International, Inc.*

**Category:** Food and Beverage  
**Subcategory:** Supplements  
**Number of associated products:** 1  
**This product uses:** N/A

### Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
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<tbody>
<tr>
<td>Liquid</td>
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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
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<td></td>
</tr>
<tr>
<td>10 ppm</td>
<td></td>
<td></td>
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</tbody>
</table>

**Structure of Particle and/or Substrate**

It contains purified water and nano silver. The 236ml bottle lists, purified silver 50mcg/serving (1 serving = 15ml).

**Synthesis Method**

"NanoSil™ is not a colloidal or ionic solution manufactured from silver salts. NanoSil™-10 is comprised of true engineered nano-particles of pure silver, manufactured in a proprietary electro-chemical reaction."


**Use of Nanotechnology**

"The silver in NanoSil™ is essentially in nonionic form. Dilution in the body and the concentration and treatment in the G.I. tract converts the silver to a true ionic form, which acts as the effective microbicide. Because the ionic silver is not present when the product is added to the body but becomes available after introduction to the stomach, silver chloride and other unwanted salts do not precipitate locally."


**Recommended Uses**

"USES: As an immune system boosting and enhancing dietary supplement."


**Antimicrobial Claims**

*FEATURES & BENEFITS:
Patent-pending; World Health Organization (W.H.O.) recognized; True nano technology; Kills and inhibits yeast growth; Anti-bacterial; Anti-viral; Non-toxic; Non-pharmaceutical; Safe and effective; Scientifically and medically proven;*


**Product Testing Information**

FDA NanoSil® has been filed with the US FDA for drug approval in both humans and animals. The company has received approval by the FDA to begin testing of the product.

**EPA Approval Disinfectant**

NanoSil® has been approved by the United States EPA as a broad spectrum surface disinfectant, able to be used in hospitals, medical environments, residential homes, commercial buildings, as well as business. It has been approved for use against the most deadly bacterial pathogens in the United States including: Gram positive bacteria like Staphylococcus aureus (the most deadly bacteria in U.S. hospitals), Gram negative bacteria like Salmonella choleraesuis (food poisoning), and also Nosocomial or hospital induced pathogens like Pseudomonas aeruginosa (burns and cuts). Although this product is extremely deadly to bacteria, it has a unique competitive advantage. It has no smell, no color and is completely non-toxic (it uses no chemicals). It can be sprayed in and around areas where critical patients are or where people live and work without endangering there lives with toxic chemicals. The product is so safe that if a child were to accidentally drink a whole bottle, he or she would not be harmed in any way. The new EPA approval states that the product can be used on hard surfaces including walls, tables, chairs, light fixtures, bathrooms, surfaces made of glass, porcelain, metal, glazed ceramic, and enameled and painted surfaces.

**Safety/Toxicity**

ConSeal hired an international and independent laboratory to do a toxicology study on NanoSil®. The test, called an LD-50 test, was performed in accordance with the guidelines of the Federal Hazardous Substances Act (FHSA) Regulations, 16 CFR 1500. In the test work, the NanoSil® was given to a number of both male and female test animals. The amount of NanoSil® given to the animals was 5g/kg of 22 ppm solution, or the equivalent of a 200 pound man taking 192 teaspoons or about 4 full 8 ounce bottles of the 10 ppm solution at one time (the normal adult dosage is one or two teaspoons/day). As a result of the test work, the independent laboratory made the following conclusion, "Under the conditions of this study, there was no mortality or significant evidence of toxicity observed in the rats. The test article (NanoSil®) would not be considered toxic at a dose of 5g/kg by oral route in the rat."


**Company web site:** www.nanosilproducts.com  
**Product web site:** http://www.nanosilproducts.com/cms/index.php?  
**Company country:** USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
NanoSil™ Homeopathic Silver Spray Gel
Conseal International, Inc.

Category: Health and Fitness
Subcategory: Sporting Goods

Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
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<tr>
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<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ppm</td>
<td></td>
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</table>

Structure of Particle and/or Substrate
"Ingredients:
Active: Argentum metallicum, (Silver 10ppm)
Inactive: Revitalized water, magnesium, lithium, sodium, silica."

Synthesis Method
"proprietary blend of pure liquid microscopic homeopathic nano-silver (argentum metallicum) particles in a proprietary shearing gel."

Recommended Uses
"NanoSil™ Homeopathic Silver Spray Gel is a unique, proprietary blend of pure liquid microscopic homeopathic nano-silver (argentum metallicum) particles in a proprietary shearing gel. NanoSil™ Homeopathic Silver Spray Gel is a unique, proprietary blend of liquid silver hydrosol that delivers a potent natural treatment alternative for dry, itchy, cracked skin. It is effective for minor skin irritations, rashes hives, insect bites, sores, burns, inflammation, skin swelling and dry, itchy, cracked skin."

Antimicrobial Claims
-

Product Testing Information
-

Company web site: www.nanosilproducts.com

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate
**NanoSil™ Nasal Spray Gel**

*Conseal International, Inc.*

**Category:** Health and Fitness  
**Subcategory:** Personal Care  
**Number of associated products:** 1  
**This product uses:** NanoSil™-10 Dietary Supplement

### Product Info

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<td>Liquid</td>
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**Structure of Particle and/or Substrate**

"REMARKS: Unique water-based thixotropic gel vehicle provides better penetration and reduced irritation as compared to alcohol or competitive water-based gel products."


### Synthesis Method

**Use of Nanotechnology**

"Utilizing nano-particles of non-ionic silver in a food grade gel suspension."


### Recommended Uses

"USES: Nasal infections."

"ConSeal’s NanoSil™ Nasal Spray Gel is a novel nasal spray based on the proven science of NanoSil-10 Solution. Utilizing nano-particles of non-ionic silver in a food grade gel suspension. Based on the patented clinically proven NanoSil™-10 Solution to get you over your cold faster!"


### Antimicrobial Claims

"FEATURES AND BENEFITS:

* True nano-phase technology. Particle size smaller than 25 nm
  * Drug-free anti-microbial"


### Product Testing Information

**Company web site:** [www.nanosilproducts.com](http://www.nanosilproducts.com)  
**Company country:** USA  

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**NanoSil™ Topical Anti-Microbial Spray Gel**

**Category:** Health and Fitness
**Subcategory:** Personal Care

Number of associated products: 1
This product uses: NanoSil™-10 Dietary Supplement

### Product Info

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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Structure of Particle and/or Substrate
It contains purified water, pure nano-silver, magnesium, lithium, sodium, and silica.

#### Synthesis Method

**Use of Nanotechnology**

"NanoSil™ Spray Gel is based on the historical anti-microbial characteristics of NanoSilTM-10 Solution now in a novel organogel compound whose unique three-dimensional network provides excellent suspension functionality and creates a thixotropic characteristic providing a pourable liquid that reforms a gel when applied providing for extended dwell time allowing it to be used in an easy to apply spray with an unequalled degree of shear thinning and the reformation of a non-elastic highly thixotropic gel, making topical applications allowing improved penetration of sub-dermal soft tissues possible."


#### Recommended Uses

"Uses: All topical wounds and abrasions."
"DESCRIPTION: ConSeal's NanoSil™ Spray Gel is a unique penetrating antibiotic gel for treating the pain, is a unique penetrating antibiotic gel for treating the pain, inflammation and other pathological conditions affecting musculoskeletal tissues and other soft tissues of the body caused by microbial infections."


#### Antimicrobial Claims

"NanoSil™ Spray Gel is based on the historical anti-microbial characteristics of NanoSilTM-10 Solution now in a novel organogel compound.... Benefits:

* Drug free anti-microbial
* Child safe"


#### Product Testing Information

**Company web site:** [www.nanosilproducts.com](http://www.nanosilproducts.com)
**Company country:** USA


Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**NanoSil™- 32 Broad Spectrum Surface Disinfectant**  
*Conseal International, Inc.*

**Category:** Home and Garden  
**Subcategory:** Cleaning

**Number of associated products:** 1  
**This product uses:** N/A

## Product Info

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<td>-</td>
<td>Nano</td>
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</table>

## Structure of Particle and/or Substrate

"REMARKS: NanoSilTM-32 is not a colloidal silver or silver suspension product. NanoSilTM-32 is FDA classified as engineered nano particles of silver. "


## Use of Nanotechnology

"NanoSilTM-32's novel and patent-protected technology provides effective broad spectrum protection without the use of toxic chemicals.... REMARKS: NanoSilTM-32 is not a colloidal silver or silver suspension product. NanoSilTM-32 is FDA classified as engineered nano particles of silver. "


## Recommended Uses

"USES: EPA approved broad spectrum surface antimicrobial product approved for use in:  
* Hospital operating rooms;  
* Any medical facility;  
* Industrial facilities;  
* Commercial facilities;  
* Residential or home use"

"NanoSilTM-32 is a broad spectrum EPA approved hospital and medical is a broad spectrum EPA approved hospital and medical environment surface disinfectant. This product is ready to use on hard, non-porous surfaces of inanimate objects. It is intended for use in commercial, residential, industrial and medical settings. This product is not for use on food contact surfaces. The product will be effective against gram negative bacterial (i.e., Salmonella choleraesuis), gram positive bacteria (i.e., Staphylococcus aureus), and nosocomial bacterial pathogen, Pseudomonas aeruginosa, with a 10- minute contact time when used as directed on hard, non-porous surfaces, including walls, urinals, floors, tables, chairs, light fixtures and bathroom surfaces. This includes those surfaces made of glass, metal, glazed ceramic, enameled and painted surfaces, etc."  

## Antimicrobial Claims

"NanoSilTM-32 is a broad spectrum EPA approved hospital and medical is a broad spectrum EPA approved hospital and medical environment surface disinfectant. This product is ready to use on hard, non-porous surfaces of inanimate objects. It is intended for use in commercial, residential, industrial and medical settings. This product is not for use on food contact surfaces. The product will be effective against gram negative bacterial (i.e., Salmonella choleraesuis), gram positive bacteria (i.e., Staphylococcus aureus), and nosocomial bacterial pathogen, Pseudomonas aeruginosa, with a 10- minute contact time when used as directed on hard, non-porous surfaces, including walls, urinals, floors, tables, chairs, light fixtures and bathroom surfaces. This includes those surfaces made of glass, metal, glazed ceramic, enameled and painted surfaces, etc."  

## Product Testing Information

**Company web site:** www.nanosilproducts.com  
**Company country:** USA  
**Product web site:** http://www.nanosilproducts.com/cms/index.php?
Nano Silver Poly Technology

**Category:** Cross-cutting  
**Subcategory:** Coatings

**Number of associated products:** 1  
**This product uses:** N/A

### Product Info

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<tr>
<th>Type/ Form</th>
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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
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</table>

### Notes

**Structure of Particle and/or Substrate**

"Nano Silver Poly is a nanoparticle-containing polymer network."


**Synthesis Method**

**Use of Nanotechnology**

"The silver nanoparticle itself is a solid state (non-fluid) anti-microbial and anti-biotic polymer and has the future potential for a number of anti-bacterial applications (washing machines and catalysts).

The static polymer is safe and will not have any effect on contact with human skin. A clean environment with a Nano Silver network in place will inhibit bacterial growth altogether-known as a bacteriostatic effect."


**Recommended Uses**

It "has the potential for a number of anti-bacterial applications (washing machines and catalysts)."


**Antimicrobial Claims**

"Nano Silver Poly is a nanoparticle-containing polymer network that can act against microscopic organisms. It is capable of repelling bacteria and other microbes, releases a biocide and can also remove the organism on contact."


"Nano Silver Poly Technology

After splitting the particles of silver known to have superior deodorant and antibiotic power by 1/100000 mm, we have applied it to major parts of refrigerator in order to restrain the growth and increase of a wide variety of bacteria and eliminate odor particles. Accordingly, it is latest pro-health technology to ensure freshness of food products and ultimately, your health.

Nano Silver presents strong disinfection, deodorant and storage power. It also maintains balance of hormone within our body and intercepts electromagnetic waves significantly."


**Product Testing Information**

**Company web site:** [www.daewoo-electronics.de/eu/home/index.asp](http://www.daewoo-electronics.de/eu/home/index.asp)  
**Company country:** Germany

**Product web site:** [http://www.daewooelectronics.co](http://www.daewooelectronics.co)

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**Refrigerator | Combi**  
*Daewoo® Electronics*

**Category:** Appliances  
**Subcategory:** Large Kitchen Appliances  
**Number of associated products:** 7  
**This product uses:** Nano Silver Poly Technology

### Product Info

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### Notes

**Structure of Particle and/or Substrate**

**Synthesis Method**

**Use of Nanotechnology**

This refrigerator utilizes "Nano Silver Poly" technology. This is described below in the antibacterial section.

**Recommended Uses**

Refrigerator for home use.

**Antimicrobial Claims**

"• Nano Silver Anti-Bacteria."


"Nano Silver Poly Technology

After splitting the particles of silver known to have superior deodorant and antibiotic power by 1/100000 mm, we have applied it to major parts of refrigerator in order to restrain the growth and increase of a wide variety of bacteria and eliminate odor particles. Accordingly, it is latest pro-health technology to ensure freshness of food products and ultimately, your health.

Nano Silver presents strong disinfection, deodorant and storage power. It also maintains balance of hormone within our body and intercepts electromagnetic waves significantly."


### Product Testing Information

**Company web site:** www.daewoo-electronics.de/eu/home/index.asp  
**Product web site:** http://www.daewoo-electronics.

**Company country:** Germany

*Sources:* All data are derived from internet searches. Source URLs are given where appropriate.
Refrigerators | Side by side

Daewoo® Electronics

<table>
<thead>
<tr>
<th>Category:</th>
<th>Appliances</th>
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<tr>
<td>Subcategory:</td>
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### Notes

**Use of Nanotechnology**

This refrigerator utilizes "Nano Silver Poly" technology. This is described below in the antibacterial section.

**Recommended Uses**

A refrigerator for home use.

**Antimicrobial Claims**

"Nano Silver Poly Technology

After splitting the particles of silver known to have superior deodorant and antibiotic power by 1/1000000 nm, we have applied it to major parts of refrigerator in order to restrain the growth and increase of a wide variety of bacteria and eliminate odor particles. Accordingly, it is latest pro-health technology to ensure freshness of food products and ultimately, your health.

Nano Silver presents strong disinfection, deodorant and storage power. It also maintains balance of hormone within our body and intercepts electromagnetic waves significantly."


**Product Testing Information**

*Company web site:* www.daewoo-electronics.de/eu/home/index.asp


*Company country:* Germany

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Vacuum Cleaner

Daewoo® Electronics

Category: Home and Garden
Subcategory: Cleaning

Number of associated products: 3
This product uses: Nano Silver Poly Technology

Product Info

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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>-</td>
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</table>

Structure of Particle and/or Substrate
"Nano Silver Poly is a nanoparticle-containing polymer network."

Synthesis Method

Use of Nanotechnology
"Daewoo Electronics' Vacuum Cleaner has a specially Nano Silver-coated 'Cyclone canister' that has the effect of removing bacteria and a plethora of dust particles, inhibiting odour, allergy-inducing spores, and other harmful debris."

Recommended Uses
Vacuum cleaner.

Antimicrobial Claims
"Nano Silver Poly is a nanoparticle-containing polymer network that can act against microscopic organisms. It is capable of repelling bacteria and other microbes, releases a biocide and can also remove the organism on contact."

Product Testing Information

Company web site: www.daewoo-electronics.de/eu/home/index.asp
Product web site: http://www.daewooelectronics.co.

Company country: Germany

Notes

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
# Washing Machine

**Daewoo® Electronics**

<table>
<thead>
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<th>Category:</th>
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## Product Info

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<td>Rate of Ag+ Release</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>

### Structure of Particle and/or Substrate

"Nano Silver Poly is a nanoparticle-containing polymer network."


### Synthesis Method

**Use of Nanotechnology**

"Daewoo Electronics’ Washing Machine system has specially Nano Silver-coated 'lifters' that interact and rotate the washing with the effect of removing bacteria from any material present in the washing process."


### Recommended Uses

Washing machine.

### Antimicrobial Claims

"Daewoo Electronics' Washing Machine system has specially Nano Silver-coated 'lifters' that interact and rotate the washing with the effect of removing bacteria from any material present in the washing process."


### Product Testing Information

<table>
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<tr>
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**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
### Washing Machine

*Daewoo® Electronics*

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<th>Category:</th>
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</table>

### Notes

**Structure of Particle and/or Substrate**

**Synthesis Method**

**Use of Nanotechnology**

It implements "Nano silver pulsator."


**Recommended Uses**

Washing machine for home use.

**Antimicrobial Claims**

**Product Testing Information**

- **Company web site:** [www.daewoo-electronics.de/eu/home/index.asp](http://www.daewoo-electronics.de/eu/home/index.asp)

- **Company country:** Germany

- **Product web site:** [http://www.daewoo-electronics.de](http://www.daewoo-electronics.de)

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**Product Info**

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**Structure of Particle and/or Substrate**

It is "silver on Titanium Dioxide" (Ag-TiO2). "The first generation of nano-photocatalyst is around 10nm to 20nm, which give a reaction surface areas far less than HGT, that is the reaction rate is slower than HGT." 


**Synthesis Method**

"HGT's binder was developed for some years. The binder keep hold of the HGT particles on the surfaces of treatment areas. The coating is not easy to be wiped off, so it is effective to decompose tiny organic matters, like bacteria, formaldehyde, etc. for a long period of time, say 6 months to several years."


**Recommended Uses**

"HGT Nano Silver Photocatalyst Aerosol Spray is easy to use. It can be sprayed to all kinds of surfaces, like toys, curtain, wall paper, concrete, plastic, etc. to form a semi-permanent protective layer." + industrial applications such as air ducts


**Antimicrobial Claims**

"HGT Nano Silver Photocatalyst Aerosol Spray 420ml Not only instant knock down of bacteria & virus but also form a semi-permanent protective layer for months." "Nano-Silver-Titanium-Dioxide not only can kill 99.9% bacteria, fungi & virus, but also give a very long time (6 months to 5 years) disinfections effect."


**Product Testing Information**

"HGT has been tested by universities in Japan, authorized organizations in Hong Kong & Japan, like Japan Food & Research Center, a center that is authorized by Health Department of Japan. It is proved that HGT can exterminate 99.9% bacteria, Influencer virus, TB bacillus, etc. For details, please see Testing Reports and University Reports."

More testing body and research report information on the same page (Medical & Universities Reports)


**Company web site:** www.daido.co.jp  
**Product web site:** http://www.hgt.com.hk/english/eindex.htm

**Company country:** Japan

---

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Platinum Silver Nanocolloid Cream

DHC USA Inc.

Category: Health and Fitness
Subcategory: Cosmetics

Number of associated products: 1
This product uses: N/A

Product Info

<table>
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Conc. of Nano Ag  | Rate of Ag+ Release | Expected Lifetime |
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Notes

Structure of Particle and/or Substrate
It contains, "absorptive platinum and silver nanocolloids."

Synthesis Method

A silver nano colloid in an anti-aging cream.

Recommended Uses
"Platinum power. This intensive, yet surprisingly light moisturizer helps minimize the appearance of wrinkles and age spots, thanks to absorptive platinum and silver nanocolloids. Hydrating botanicals and coenzyme Q10 help maintain younger-looking skin. For best results, layer after applying Platinum Silver Nanocolloid Milky Essence."

Antimicrobial Claims

Product Testing Information

Company web site: www.dhccare.com
Product web site: http://www.dhccare.com/DHC/ProductDetail.aspx?

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate
Platinum Silver Nanocolloid Milky Essence

DHC USA Inc.

Category: Health and Fitness
Subcategory: Cosmetics

Number of associated products: 1
This product uses: N/A

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<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>Expected Lifetime</td>
</tr>
</tbody>
</table>

Structure of Particle and/or Substrate
A mixture of “absorptive platinum and silver nanocolloids” included with other ingredients.

Synthesis Method
-

Use of Nanotechnology
A silver nano colloid in a skin treatment.

Recommended Uses
"Silver lining. This light-textured booster in an integral step in helping to minimize the appearance of wrinkles and age spots, thanks to absorptive platinum and silver nanocolloids. Hydrating botanicals and coenzyme Q10 in the silky serum help maintain younger-looking skin. For best results, apply after toning, followed by Platinum Silver Nanocolloid Cream.”

Antimicrobial Claims
-

Product Testing Information
-

Company web site: www.dhccare.com
Product web site:

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate
## UP-3211 Nano & UV Artificial Teeth Cleaner

**DigiMax Innovative Products LTD.**

<table>
<thead>
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<th>Category:</th>
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### Product Info

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</tbody>
</table>

### Notes

#### Structure of Particle and/or Substrate
- 

#### Synthesis Method
- 

#### Use of Nanotechnology
- 

#### Recommended Uses
"It efficiently clean your artificial teeth or jewelry with nano-silver and latest Japan technology - UV light sterilization."


#### Antimicrobial Claims
"Through the latest UV light sterilization and nano-silver bacteriostasis to reach 100% spotless effect without residual chemical... UV light sterilization and nano-silver mixture container can deodorize, sterilize and wash at one step.


### Company Information

#### Company web site:
www.digimaxproducts.com

#### Product web site:
http://www.digimaxproducts

#### Company country:
Taiwan (R.O.C)

---

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
E47™ Antimicrobial Fiber Technology

**Category:** Cross-cutting  
**Subcategory:** Coatings  
**Number of associated products:** 1  
**This product uses:** N/A

### Product Info

<table>
<thead>
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<td>permanent</td>
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</tbody>
</table>

### Structure of Particle and/or Substrate

It is "generally between 10 and 15 nanometers in diameter."


### Synthesis Method

"[P]olymers are enhanced using hot-mixed additives at the fiber extruder following our specific recipe; and cotton is enhanced utilizing either pressure or atmospheric dyeing machines, also following our specific recipe."


### Use of Nanotechnology

"[T]hey are also chemically and permanently bonded to the fibers that are being enhanced."


### Recommended Uses

For use in polyester, nylon, polyurethane, polypropylene, or 100% cotton fiber.

"Designers can now add permanent and effective anti-odor properties to their favorite fibers and fabrics without concern for loss of stretch, wicking, hand or dyeability."


### Antimicrobial Claims

"E47’s anti-microbial nano silver technology is available in the following fabrics:

* E47 Polyester
* E47 Nylon
* E47 Polyurethane
* E47 Polypropylene
* E47 100% Cotton"


### Product Testing Information

"NAMSA, an independent biomedical testing company, exposed two common microbes to fabric made with E47 antimicrobial-enhanced fibers: corynbacterium diptheriae (commonly called diphtheria and known as a foot-area bacterium) and staphylococcus aureus (commonly called staph and present throughout the body). These microbes were chosen because they are a common source of unpleasant odor in clothing. The NAMSA tests were performed on enhanced polyester and enhanced cotton... The test results showed exceptional effectiveness against both staph and diptheria - results at least as good as those produced by competitive offerings such as silver-coated nylon wire."


### Company Info

**Company web site:** www.e47nano.com  
**Product web site:** www.e47nano.com  
**Company country:** USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**X-System™ Hunting Cap**

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** E47™ Antimicrobial Fiber Technology

### Product Info

<table>
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</tr>
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</table>

### Structure of Particle and/or Substrate

It is "generally between 10 and 15 nanometers in diameter."


### Synthesis Method

"Polymers are enhanced using hot-mixed additives at the fiber extruder following our specific recipe; and cotton is enhanced utilizing either pressure or atmospheric dyeing machines, also following our specific recipe."


### Use of Nanotechnology

"They are also chemically and permanently bonded to the fibers that are being enhanced."


### Recommended Uses

Cap.

### Antimicrobial Claims

"The X-System™ Six-Panel Cap is highly advanced, considering its ability to eliminate the source of body odor by preventing bacteria growth with a silver-ion technology."


### Product Testing Information

- Company website: www.e47nano.com  
- Company country: USA  
- Product website: http://www.xsystem.com/huntingcap.html

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
## X-System™ Scent Eliminating Boot Socks

**E47**

### Category:
Health and Fitness

### Subcategory:
Sporting Goods

### Number of associated products:
1

### This product uses:
E47™ Antimicrobial Fiber Technology

### Product Info

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</table>

### Structure of Particle and/or Substrate

It is "generally between 10 and 15 nanometers in diameter."


### Synthesis Method

"[P]olymers are enhanced using hot-mixed additives at the fiber extruder following our specific recipe; and cotton is enhanced utilizing either pressure or atmospheric dyeing machines, also following our specific recipe."


### Use of Nanotechnology

"[T]hey are also chemically and permanently bonded to the fibers that are being enhanced."


### Recommended Uses

Socks.

### Antimicrobial Claims

"These socks are by far the most technologically advanced in the hunting industry, considering its ability to eliminate the source of odor by preventing bacteria growth with E47™ nano silver technology for days."


### Product Testing Information

- 

### Notes

**Company web site:** [www.e47nano.com](http://www.e47nano.com)  
**Company country:** USA

**Product web site:** [http://www.xsystem.com/bootsocks.html](http://www.xsystem.com/bootsocks.html)

---

*Sources: All data are derived from internet searches. Source URLs are given where appropriate.*
**X-System™ Balaclava**

**E47**

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** E47™ Antimicrobial Fiber Technology

### Product Info

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**Conc. of Nano Ag**  
**Rate of Ag+ Release**  
**Expected Lifetime**  
permanent

### Notes

**Structure of Particle and/or Substrate**

It is "generally between 10 and 15 nanometers in diameter."


**Synthesis Method**

"[P]olymers are enhanced using hot-mixed additives at the fiber extruder following our specific recipe; and cotton is enhanced utilizing either pressure or atmospheric dyeing machines, also following our specific recipe."


**Use of Nanotechnology**

"[T]hey are also chemically and permanently bonded to the fibers that are being enhanced."


**Recommended Uses**

"This Balaclava style headwear will protect the head and neck from cool weather while controlling body odor."

**Antimicrobial Claims**

"while the 100-percent polyester inner lining with E47 nano silver technology eliminates odor-causing bacteria."


**Product Testing Information**

**Company web site:** www.e47nano.com  
**Product web site:** http://www.xsystem.com/balaclava.html  
**Company country:** USA

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
# X-System™ Base Layer

**E47**

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** E47™ Antimicrobial Fiber Technology

## Product Info

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</table>

## Notes

### Structure of Particle and/or Substrate

*It is "generally between 10 and 15 nanometers in diameter."


### Synthesis Method

*"[P]olymers are enhanced using hot-mixed additives at the fiber extruder following our specific recipe; and cotton is enhanced utilizing either pressure or atmospheric dyeing machines, also following our specific recipe."*


### Use of Nanotechnology

*"[T]hey are also chemically and permanently bonded to the fibers that are being enhanced."


### Recommended Uses

*"With the Base Layer Long-Sleeve Tee and Pull-On Pant, hunters can now wear their favorite camo pattern during the warm early season with the added benefit of effective scent elimination."


### Antimicrobial Claims

*"This high-tech base layer eliminates the source of odor by preventing bacteria growth with a silver-ion technology."


### Product Testing Information

- **Company web site:** www.e47nano.com  
  **Company country:** USA  
  **Product web site:** http://www.xsystem.com/baselayer.html

*Sources: All data are derived from internet searches. Source URLs are given where appropriate*
X-System™ Camo Shirt
E47

Category: Health and Fitness
Subcategory: Clothing
Number of associated products: 1
This product uses: E47™ Antimicrobial Fiber Technology

Product Info

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</table>

Conc. of Nano Ag | Rate of Ag+ Release | Expected Lifetime |
-               | -               | permanent       |

Structure of Particle and/or Substrate
It is "generally between 10 and 15 nanometers in diameter."

Synthesis Method
"[P]olymers are enhanced using hot-mixed additives at the fiber extruder following our specific recipe; and cotton is enhanced utilizing either pressure or atmospheric dyeing machines, also following our specific recipe."

Use of Nanotechnology
"[T]hey are also chemically and permanently bonded to the fibers that are being enhanced."

Recommended Uses
"If you’re a hunter who likes lightweight button-down shirts for the hot, humid early season, or just want something other than a T-shirt, then here’s the solution – the X-System™ Light-Weight Camo Button-Down Shirt."

Antimicrobial Claims
"Like all X-System garments, this shirt will eliminate the source of odor by preventing bacteria growth with silver-ion technology."

Product Testing Information

Company web site: www.e47nano.com
Product web site: http://www.xsystem.com/camoshirt.html

Company country: USA

Notes

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**X-System™ Fleece Pullover**

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** E47™ Antimicrobial Fiber Technology  

### Product Info

<table>
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<td>Conc. of Nano Ag</td>
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**Structure of Particle and/or Substrate**

It is "generally between 10 and 15 nanometers in diameter."


**Synthesis Method**

"[P]olymers are enhanced using hot-mixed additives at the fiber extruder following our specific recipe; and cotton is enhanced utilizing either pressure or atmospheric dyeing machines, also following our specific recipe." (Understanding E47 pdf)

**Use of Nanotechnology**

"[T]hey are also chemically and permanently bonded to the fibers that are being enhanced."


**Recommended Uses**

Pullover.

**Antimicrobial Claims**

"This polar-weight pullover is by far the most technologically advanced in the hunting industry, considering its ability to eliminate the source of odor by preventing bacteria growth with silver-ion technology."


### Product Testing Information

**Company web site:** www.e47nano.com  
**Product web site:** http://www.xsystem.com/fleecepullover.html  
**Company country:** USA

---

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**X-System™ Head Cover**

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** E47™ Antimicrobial Fiber Technology

### Product Info

<table>
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<td>Rate of Ag+ Release</td>
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### Structure of Particle and/or Substrate

It is "generally between 10 and 15 nanometers in diameter."


### Synthesis Method

"[P]olymers are enhanced using hot-mixed additives at the fiber extruder following our specific recipe; and cotton is enhanced utilizing either pressure or atmospheric dyeing machines, also following our specific recipe."


### Use of Nanotechnology

"[T]hey are also chemically and permanently bonded to the fibers that are being enhanced."


### Recommended Uses

Head cover.

### Antimicrobial Claims

"The X-System™ Head Cover is by far the most technologically advanced in the hunting industry, considering its ability to eliminate the source of odor by preventing bacteria growth, with E47 nano silver technology."


### Product Testing Information

-  

### Notes

**Company web site:** www.e47nano.com  
**Product web site:** http://www.xsystem.com/headcover.html  
**Company country:** USA  

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
X-System™ Light-Weight Six-Pocket Pant

Category: Health and Fitness  
Subcategory: Clothing

Number of associated products: 1  
This product uses: E47™ Antimicrobial Fiber Technology

Product Info

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Notes

Structure of Particle and/or Substrate
It is "generally between 10 and 15 nanometers in diameter."

Synthesis Method
"[P]olymers are enhanced using hot-mixed additives at the fiber extruder following our specific recipe; and cotton is enhanced utilizing either pressure or atmospheric dyeing machines, also following our specific recipe."

Use of Nanotechnology
"[T]hey are also chemically and permanently bonded to the fibers that are being enhanced."

Recommended Uses
"The X-System™ Light-Weight Six-Pocket Pant is perfect for hot, humid early season hunting. This pant is made from the latest development in performance, heat wicking fabrics. The unique cotton-twill blend with silver-ion technology is an X-System™ exclusive fabric that wears extremely light on the skin for unmatched comfort."

Antimicrobial Claims
"This pant is by far the most technologically advanced in the hunting industry, considering its ability to eliminate the source of odor by preventing bacteria growth with silver-ion technology."

Product Testing Information

Company web site: www.e47nano.com  
Product web site: http://www.xsystem.com/sixpocketpant.html  
Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
# X-System™ Light-weight Unlined Bib

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** E47™ Antimicrobial Fiber Technology

## Product Info

<table>
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## Notes

**Structure of Particle and/or Substrate**

It is "generally between 10 and 15 nanometers in diameter."  

**Synthesis Method**

"[P]olymers are enhanced using hot-mixed additives at the fiber extruder following our specific recipe; and cotton is enhanced utilizing either pressure or atmospheric dyeing machines, also following our specific recipe."  

**Use of Nanotechnology**

"[T]hey are also chemically and permanently bonded to the fibers that are being enhanced."  

**Recommended Uses**

"The X-System™ light-weight, unlined Bib is ideal for warm to hot early-season hunting while adding the benefit of odor elimination technology."  

**Antimicrobial Claims**

"This bib is by far the most technologically advanced light-weight bib in the hunting industry, considering its ability to eliminate the source of odor by preventing bacteria growth with silver-ion technology."  

**Product Testing Information**

- Company web site: www.e47nano.com  
- Product web site: http://www.xsystem.com/unlinedbib.html  
- Company country: USA

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
## X-System™ Mockneck / Long Sleeve

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** E47™ Antimicrobial Fiber Technology

### Product Info

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### Notes

#### Structure of Particle and/or Substrate

It is "generally between 10 and 15 nanometers in diameter."


#### Synthesis Method

"[P]olymers are enhanced using hot-mixed additives at the fiber extruder following our specific recipe; and cotton is enhanced utilizing either pressure or atmospheric dyeing machines, also following our specific recipe."


#### Use of Nanotechnology

"[T]hey are also chemically and permanently bonded to the fibers that are being enhanced."


#### Recommended Uses

"X-System’s™ Mockneck Long-Sleeve T-shirt is perfect for those sportsmen who like their neck covered for added warmth and scent control. This long-sleeve T-shirt eliminates the source of odor by preventing bacteria growth with silver-ion technology."


#### Antimicrobial Claims

"This high-tech long-sleeve T-shirt eliminates the source of odor by preventing bacteria growth with silver-ion technology."


### Product Testing Information

<table>
<thead>
<tr>
<th>Company web site:</th>
<th><a href="http://www.e47nano.com">www.e47nano.com</a></th>
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<td><a href="http://www.xsystem.com/mockneck.html">http://www.xsystem.com/mockneck.html</a></td>
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_Sources: All data are derived from internet searches. Source URLs are given where appropriate._
**Structure of Particle and/or Substrate**

It is "generally between 10 and 15 nanometers in diameter."


**Use of Nanotechnology**

"X-System™ Nano-Silver Scent Elimination Spray is dual-action; it combines a fast-acting technology with the powerful, long-lasting deodorizing properties of pure nano-size silver."


**Recommended Uses**

"To the hunter, this means it doesn’t matter where the odor comes from – body or outside source – X-System Nano-Silver will control it.

Odor molecules from outside sources, such as smoke, food and gasoline vapors, are altered with a fast-acting technology that renders them undetectable to the noses of wild game. Odor-causing bacteria will be controlled by the long lasting protection of nano-size silver. X-System Nano-Silver will not bleed or leave a white powdery residue, and it will not stain or fade clothing."


**Antimicrobial Claims**

"Odor-causing bacteria will be controlled by the long lasting protection of nano-size silver."


**Product Testing Information**

Company web site: www.e47nano.com

Product web site: http://www.xsystem.com/scentspray.html

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**X-System™ Plantation Jacket**

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** E47™ Antimicrobial Fiber Technology

### Product Info

<table>
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<th>Is the use disperseve?</th>
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<tbody>
<tr>
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<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>permanent</td>
</tr>
</tbody>
</table>

### Structure of Particle and/or Substrate

It is "generally between 10 and 15 nanometers in diameter."


### Synthesis Method

"[P]olymers are enhanced using hot-mixed additives at the fiber extruder following our specific recipe; and cotton is enhanced utilizing either pressure or atmospheric dyeing machines, also following our specific recipe."


### Use of Nanotechnology

"[T]hey are also chemically and permanently bonded to the fibers that are being enhanced."


### Recommended Uses

"The X-System™ Plantation is perfect for those bowhunters heading out to the woods on cool mornings when a light jacket equipped with scent control is needed."


### Antimicrobial Claims

"The Plantation Jacket eliminates the source of odor by preventing bacteria growth and regulates body heat with silver-ion technology."


### Product Testing Information

- **Company web site:** www.e47nano.com  
**Company country:** USA  
**Product web site:** http://www.xsystem.com/plantationjacket.html

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
X-System™ Polywool Base Layer

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** E47™ Antimicrobial Fiber Technology

### Product Info

<table>
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### Structure of Particle and/or Substrate

It is "generally between 10 and 15 nanometers in diameter."


### Synthesis Method

"[P]olymers are enhanced using hot-mixed additives at the fiber extruder following our specific recipe; and cotton is enhanced utilizing either pressure or atmospheric dyeing machines, also following our specific recipe." (Understanding E47 pdf)

### Use of Nanotechnology

"[T]hey are also chemically and permanently bonded to the fibers that are being enhanced."


"X-System™ has taken two basic products – polyester and fine Merino wool – and combined them with a silver-ion technology, yielding a technologically advanced hunting product."


### Recommended Uses

"For hunters looking for ultimate performance for added warmth, moisture management and odor control in an undergarment, X-System™ Polywool™ is the answer."


### Antimicrobial Claims

"These high-tech undergarments use a silver-ion technology to control body odor by eliminating its source – the growth and influx of bacteria. Since reactivation or regeneration is never necessary, hunters can take full advantage of this advanced technology while remaining worry free on hunts."


### Product Testing Information

- **Company web site:** www.e47nano.com  
- **Product web site:** http://www.xsystem.com/polywool.html  
- **Company country:** USA

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
## X-System™ Radar Hat

### Product Info

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### Notes

**Structure of Particle and/or Substrate**

It is "generally between 10 and 15 nanometers in diameter."

*E47, "Understanding E47 PDF," www.e47nano.com (accessed June 11, 2007).*

**Synthesis Method**

"[P]olymers are enhanced using hot-mixed additives at the fiber extruder following our specific recipe; and cotton is enhanced utilizing either pressure or atmospheric dyeing machines, also following our specific recipe."

*E47, "Understanding E47 PDF," www.e47nano.com (accessed June 11, 2007).*

**Use of Nanotechnology**

"[T]hey are also chemically and permanently bonded to the fibers that are being enhanced."

*E47, "Understanding E47 PDF," www.e47nano.com (accessed June 11, 2007).*

**Recommended Uses**

"This Radar style hat has fold-down earflaps for added warmth and a short visor."


**Antimicrobial Claims**

"The micro-fleece outer shell will help hunters stay warm and dry, while the 100-percent polyester inner lining with E47 nano silver eliminates odor-causing bacteria."


**Product Testing Information**

- **Company web site:** www.e47nano.com
  **Product web site:** http://www.xsystem.com/radarhat.html
  **Company country:** USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**X-System™ Shooter Gloves**

**E47**

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
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<tr>
<td>Subcategory:</td>
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<tr>
<td>Number of associated products:</td>
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<tr>
<td>This product uses:</td>
<td>E47™ Antimicrobial Fiber Technology</td>
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</tbody>
</table>

### Product Info

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</table>

### Notes

**Structure of Particle and/or Substrate**

*It is "generally between 10 and 15 nanometers in diameter."*


**Synthesis Method**

"[P]olymers are enhanced using hot-mixed additives at the fiber extruder following our specific recipe; and cotton is enhanced utilizing either pressure or atmospheric dyeing machines, also following our specific recipe."


**Use of Nanotechnology**

"This glove is a high quality shooter's glove with a polyester inner lining that contains E47™ nano silver technology that will keep you odor free."


**Recommended Uses**

Shooting gloves.

**Antimicrobial Claims**

"This glove is a high quality shooter's glove with a polyester inner lining that contains E47™ nano silver technology that will keep you odor free."


**Product Testing Information**

- **Company web site:** www.e47nano.com
  **Company country:** USA
- **Product web site:** http://www.xsystem.com/shootersgloves.html

*Sources: All data are derived from internet searches. Source URLs are given where appropriate*
X-System™ Short Sleeve

Category: Health and Fitness
Subcategory: Clothing

Number of associated products: 1
This product uses: E47™ Antimicrobial Fiber Technology

Product Info

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Structure of Particle and/or Substrate

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Synthesis Method

"[P]olymers are enhanced using hot-mixed additives at the fiber extruder following our specific recipe; and cotton is enhanced utilizing either pressure or atmospheric dyeing machines, also following our specific recipe."

Use of Nanotechnology

"[T]hey are also chemically and permanently bonded to the fibers that are being enhanced."

Recommended Uses

"Just about everyone wears a T-shirt, so why not have one that will control body odor,... This T-shirt is perfect for turkey hunters and anglers too."

Antimicrobial Claims

"This short-sleeve tee eliminates the source of odor by preventing bacteria growth with silver-ion technology."

Product Testing Information

- 

Company web site: www.e47nano.com
Product web site: http://www.xsystem.com/shortsleeveshirt.html

Company country: USA

Notes

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**X-System™ Wipes**

**E47**

<table>
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<tr>
<th>Category:</th>
<th>Health and Fitness</th>
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<tbody>
<tr>
<td>Subcategory:</td>
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<td>Number of associated products:</td>
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### Product Info

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### Notes

**Structure of Particle and/or Substrate**

It is "generally between 10 and 15 nanometers in diameter."


**Synthesis Method**

**Use of Nanotechnology**

"X-System™ Nano-Silver Scent Elimination Spray is dual-action; it combines a fast-acting technology with the powerful, long-lasting deodorizing properties of pure nano-size silver."


**Recommended Uses**

"Based on the same chemical blend in scent eliminator spray, these wipes are ideal for eliminating all types of odor contaminates on your hunting gear arsenal. Use these wipes to eliminate human odors, gasoline vapors, food smells, smoke and any other odor you want to eliminate. These wipes are especially helpful on early-season multiple-day hunts when taking a shower just isn’t possible. Carry the container with you and wipe down before your rigorous spot ‘n’ stalks."


**Antimicrobial Claims**

**Product Testing Information**

**Company web site:** www.e47nano.com  
**Product web site:** http://www.xsystem.com/wipes.html  
**Company country:** USA

*Sources: All data are derived from internet searches. Source URLs are given where appropriate.*
## CHI® Nano Digital Irons

*Farouk Systems, Inc.*

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
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</thead>
<tbody>
<tr>
<td>Subcategory:</td>
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</tr>
<tr>
<td>Number of associated products:</td>
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</tr>
<tr>
<td>This product uses:</td>
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### Product Info

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### Notes

<table>
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<th>Structure of Particle and/or Substrate</th>
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<tbody>
<tr>
<td>Synthesis Method</td>
<td>-</td>
</tr>
<tr>
<td>Use of Nanotechnology</td>
<td>-</td>
</tr>
</tbody>
</table>

### Recommended Uses

*Hair iron.*

### Antimicrobial Claims

"Sterilizes and kills bacteria" product page
"Nano Silver - CHI Brand has now added this new pioneering technology to our industry, for the first time hairdressers will be able to use tools which not only out perform but also sterilize themselves and kill bacteria."


### Product Testing Information

<table>
<thead>
<tr>
<th>Company web site:</th>
<th><a href="http://www.farouk.com">www.farouk.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Company country:</td>
<td>USA</td>
</tr>
</tbody>
</table>
# CHI® Nano Dryer

**Farouk Systems, Inc.**

## Category
Health and Fitness

## Subcategory
Personal Care

## Number of associated products
1

## This product uses
N/A

## Product Info

<table>
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</table>

## Notes

### Structure of Particle and/or Substrate
- 

### Synthesis Method
- 

### Use of Nanotechnology
- 

### Recommended Uses
hair dryer

### Antimicrobial Claims
"Nano silver—infused in the handle sterilizes and kills bacteria" product page

"Nano Silver - CHI Brand has now added this new pioneering technology to our industry, for the first time hairdressers will be able to use tools which not only out perform but also sterilize themselves and kill bacteria."


### Product Testing Information

**Company web site**: [www.farouk.com](http://www.farouk.com)


**Company country**: USA

---

**Sources**: All data are derived from internet searches. Source URLs are given where appropriate.
CHI® Nano Iron
Farouk Systems, Inc.

Category: Health and Fitness
Subcategory: Personal Care
Number of associated products: 1
This product uses: N/A

Product Info

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<th>Type/Form</th>
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</tbody>
</table>

Notes

Structure of Particle and/or Substrate
- 
Synthesis Method
- 
Use of Nanotechnology
- 
Recommended Uses
Hair iron.

Antimicrobial Claims
"Sterilizes and kills bacteria" product page
"Nano Silver - CHI Brand has now added this new pioneering technology to our industry, for the first time hairdressers will be able to use tools which not only out perform but also sterilize themselves and kill bacteria."

Product Testing Information

Company web site: www.farouk.com
Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Ultrasonic Humidifier
Germ Guardian™

Category: Health and Fitness
Subcategory: Personal Care
Number of associated products: 2
This product uses: N/A

Product Info

<table>
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<th>Particle Size</th>
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Notes

Structure of Particle and/or Substrate
- 

Synthesis Method
- 

Use of Nanotechnology
The water tank is coated with nanosilver. It is described as the use of "nano-silver in the water tank of the H-3000 and H-2000 to help prevent the growth of microbes in the water such as bacteria, viruses and fungi."


Recommended Uses
Humidifier for personal use.

Antimicrobial Claims
"Germ Guardian™ chose to use nano-silver in the water tank of the H-3000 and H-2000 to help prevent the growth of microbes in the water such as bacteria, viruses and fungi. Therefore, the water in the tank is free of contaminants and healthy vapor is sent out into the air."


Product Testing Information
- 

Company web site: www.guardiantechnologies.com
Product web site: http://www.germguardian.com/prod_humiddigi.html
Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** Nanotex  

### Product Info

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<tr>
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<td></td>
<td>Expected Lifetime</td>
<td>product lifetime</td>
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### Notes

**Structure of Particle and/or Substrate**
It contains silver particles in a polymer matrix.

**Synthesis Method**

**Use of Nanotechnology**

“A technical fabric composed of micro-channel cross-sections yarn... NANOTECH HEAL FIBER, Nano Silver Anti Bacterial NYLON fiber, a performance fiber system made with pure silver.... As the anti-microbial substance is mixed into the polymer NANO Silver maintains its functions without any deterioration by repeated laundering.”


**Recommended Uses**

Long johns with the following features:
1. Prevent body and feet diseases for affection
2. Keep body and feet warm
3. Improves body and feet dryness and comfortable
4. Maintain the effect after repeated washing.”


**Antimicrobial Claims**

“The special construction yarn and fabric with Nano Silver Tech is able to move moisture away from the body, to enhance fabric drying, and to extinguish the growing of bacteria.”


**Product Testing Information**

**Company web site:** www.goodweaver.com  
**Product web site:** http://www.weshin.idv.tw/goodweaver/products.html  
**Company country:** Taiwan (R.O.C.)

Sources: All data are derived from internet searches. Source URLs are given where appropriate
Nano Silver Socks
Goodweaver Textile Co., Ltd.

Category: Health and Fitness
Subcategory: Clothing
Number of associated products: 1
This product uses: Nanotex

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Structure of Particle and/or Substrate
It contains silver particles in a polymer matrix.

Synthesis Method

Use of Nanotechnology
“A technical fabric composed of micro-channel cross-sections yarn…. NANOTECH HEAL FIBER, Nano Silver Anti Bacterial NYLON fiber, a performance fiber system made with pure silver…. As the anti-microbial substance is mixed into the polymer NANO Silver maintains its functions without any deterioration by repeated laundering.”


Recommended Uses
Socks with the following features:
1. Prevent body and feet diseases for affection
2. Keep body and feet warm
3. Improves body and feet dryness and comfortable
4. Maintain the effect after repeated washing.”


Antimicrobial Claims
“The special construction yarn and fabric with Nano Silver Tech is able to move moisture away from the body, to enhance fabric drying, and to extinguish the growing of bacteria.”


Product Testing Information

Company web site: www.goodweaver.com
Product web site: http://www.weshin.idv.tw/goodweaver/products.html

Company country: Taiwan (R.O.C.)

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Nanotex
Goodweaver Textile Co., Ltd.

Category: Cross-cutting
Subcategory: Fabric Thread
Number of associated products: 1
This product uses: N/A

Product Info

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Notes

Structure of Particle and/or Substrate
It contains silver particles in a polymer matrix.

Synthesis Method

Use of Nanotechnology
"A technical fabric composed of micro-channel cross-sections yarn... NANOTECH HEAL FIBER, Nano Silver Anti Bacterial NYLON fiber, a performance fiber system made with pure silver.... As the anti-microbial substance is mixed into the polymer NANO Silver maintains its functions without any deterioration by repeated laundering."


Recommended Uses
It is "suitable for outdoors sport wear, city and casual wear, pants and some tights."


Antimicrobial Claims
"The special construction yarn and fabric with Nano Silver Tech is able to move moisture away from the body, to enhance fabric drying, and to extinguish the growing of bacteria."


Product Testing Information

Company web site: www.goodweaver.com
Product web site: http://www.goodweaver.com/

Company country: Taiwan (R.O.C.)

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**Polo Shirt**
*Goodweaver Textile Co., Ltd.*

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** Nanotex

### Product Info

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<td>product lifetime</td>
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### Notes

**Structure of Particle and/or Substrate**
It contains silver particles in a polymer matrix.

**Synthesis Method**

"A technical fabric composed of micro-channel cross-sections yarn…. NANOTECH HEAL FIBER, Nano Silver Anti Bacterial NYLON fiber, a performance fiber system made with pure silver…. As the anti-microbial substance is mixed into the polymer NANO Silver maintains its functions without any deterioration by repeated laundering."


**Recommended Uses**

Shirt with the following features:
1. Prevent body and feet diseases for affection  
2. Keep body and feet warm  
3. Improves body and feet dryness and comfortable  
4. Maintain the effect after repeated washing."


**Antimicrobial Claims**

"The special construction yarn and fabric with Nano Silver Tech is able to move moisture away from the body, to enhance fabric drying, and to extinguish the growing of bacteria."


**Product Testing Information**

**Company web site:** www.goodweaver.com  
**Product web site:** http://www.weshin.idv.tw/goodweaver/products.html  
**Company country:** Taiwan (R.O.C.)

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Hot tools® Helix™ Curling Iron

Helen of Troy®

Category: Health and Fitness
Subcategory: Personal Care

Number of associated products: 4
This product uses: N/A

Product Info

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Notes

Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology

Recommended Uses
Curling Iron.

Antimicrobial Claims
"Hot Tools® is changing the DNA of professional styling appliances with the debut of its new Helix™ Collection featuring innovative NanoSilver technology, which is known to be a natural bacteriostat."


Product Testing Information

Company web site: www.hotus.com

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Hot tools® Helix™ Deep Waver
Helen of Troy®

Category: Health and Fitness
Subcategory: Personal Care

Number of associated products: 1
This product uses: N/A

Product Info

<table>
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<tr>
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</table>

Notes

Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology

Recommended Uses
Hair deep waver.

Antimicrobial Claims
"Hot Tools® is changing the DNA of professional styling appliances with the debut of its new Helix™ Collection featuring innovative NanoSilver technology, which is known to be a natural bacteriostat."

Product Testing Information

Company web site: www.hotus.com
Product web site: http://www.lasplash.com
Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
### Hot tools® Helix™ Dryer

*Helen of Troy®*

**Category:** Health and Fitness  
**Subcategory:** Personal Care  
**Number of associated products:** 1  
**This product uses:** N/A

<table>
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</table>

### Product Info

- Use of Nanotechnology
  - "NanoSilver housing keeps bacteria and germs away, and the removable lint filter is a breeze to clean."

- **Antimicrobial Claims**
  - "Hot Tools® is changing the DNA of professional styling appliances with the debut of its new Helix™ Collection featuring innovative NanoSilver technology, which is known to be a natural bacteriostat."

**Recommended Uses**
- Hair dryer.

**Company web site:** [www.hotus.com](http://www.hotus.com)  
**Company country:** USA  
**Product web site:** [http://www.lasplash.com](http://www.lasplash.com)
## Hot tools® Helix™ Flat Iron

*Helen of Troy®*

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### Product Info

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</table>

### Notes

#### Structure of Particle and/or Substrate

- 

#### Synthesis Method

- 

#### Use of Nanotechnology

- 

#### Recommended Uses

Hair straightener.

#### Antimicrobial Claims

"Hot Tools® is changing the DNA of professional styling appliances with the debut of its new Helix™ Collection featuring innovative NanoSilver technology, which is known to be a natural bacteriostat."


### Product Testing Information

- 

#### Company web site

www.hotus.com

#### Product web site

http://www.lasplash.com

#### Company country

USA

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*Sources: All data are derived from internet searches. Source URLs are given where appropriate*
Hot tools® Helix™ Multi-Function Styling Iron

Category: Health and Fitness
Subcategory: Personal Care

Product Info

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</tbody>
</table>

Notes

Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology

Recommended Uses

Hair multifunction styling iron "This 3-in-1 iron offers superior straightening, curling or beautiful ribbon curls."

Antimicrobial Claims

"Hot Tools® is changing the DNA of professional styling appliances with the debut of its new Helix™ Collection featuring innovative NanoSilver technology, which is known to be a natural bacteriostat."

Product Testing Information

Company web site: www.hotus.com
Product web site: http://www.lasplash.com

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
BIOSILVER
Hyosung

Category: Cross-cutting
Subcategory: Fabric Thread

Number of associated products: 1
This product uses: Nano Magic Silver®

Structure of Particle and/or Substrate
It uses "nano-sized silver ions."

Synthesis Method
A fabric product;
"BIOSILVER is made of an anti-bacterial yarn, delivering lasting infection-resistance, deodorization, far-infrared emission, through modified polymer and absorbent & quick-drying properties with the multi-shaped cross-section of a yarn."

Recommended Uses
"This product is widely used for sportswear, shirts and hospital gowns."

Antimicrobial Claims
"BIOSILVER is a hygiene-related protective product, blended with an anti-bacterial yarn and an anti-bacterial process. This material is a multifunctional textile that contains a variety of functions, including bacteria resistance properties"
"Contains nano-sized silver ions to kill various harmful germs, including staphylococcus, pneumococcus and MRSA"

Product Testing Information

Company web site: www.hyosung.com

Company country: South Korea

Notes

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
MIPAN Nano Magic Silver®

Hyosung

**Category:** Cross-cutting  
**Subcategory:** Fabric Thread  
**Number of associated products:** 1  
**This product uses:** N/A

### Product Info

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</table>

### Notes

**Structure of Particle and/or Substrate**
Silver within a polymer matrix.

**Synthesis Method**
"As the anti-microbial substance is mixed into the polymer NANO Magic Silver maintains its functions without any deterioration by repeated washing."

**Use of Nanotechnology**
It is used as a Fiber Product.
"As the size of the additive is extremely small, there is little damage to the machinery during texturing, knitting or weaving. The fiber has been also proven to maintain its anti-bacterial function even after dyeing and finishing process of general nylons."

**Recommended Uses**
"Daily Activities & Sports : Sportswear, outdoor wear, sports bags, and running shoes  
Intimate Freshness : Lingerie, underwear, stockings, and socks  
Clean & Safe Lifestyle : Bedding, towels, dishcloths, and personal sanitary goods  
Medical Uses : Hospital and laboratory gowns, clothes for patients, etc."

**Antimicrobial Claims**
"Anti-microbial effect, far infrared ray radiation and UV protection."

**Product Testing Information**
Tested for the amount of Ag in processed wastewater.  
NANO Ag Safety Tests on living thing (FITI), see PDF in company folder in the database.

**Company web site:** [www.hyosung.com](http://www.hyosung.com)  
**Company country:** South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
## Air Cleaner

*Hyundai Air and Water Technologies*

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<tr>
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**Number of associated products:** 3

**This product uses:** N/A

### Product Info

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### Notes

**Structure of Particle and/or Substrate**

-  

**Synthesis Method**

-  

**Use of Nanotechnology**

The system contains a NANO Silver Composite HEPA Filter.

**Recommended Uses**

*Air purification system.*

**Antimicrobial Claims**

-  

**Product Testing Information**

-  

**Company web site:** [www.hyundaiwaterandair.com](http://www.hyundaiwaterandair.com)

**Company country:** USA

---

*Sources: All data are derived from internet searches. Source URLs are given where appropriate*
Laser Travel Mouse with Nano Coating Technology (GME226AW6)

**IOGEAR®**

**Category:** Electronics and Computers  
**Subcategory:** Computer Hardware

**Product Info**

<table>
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</table>

**Expected Lifetime**: 1 year

**Structure of Particle and/or Substrate**

It is "coated with a Titanium Dioxide (TiO2) and Silver (Ag) nano-particle compound."


**Synthesis Method**

- 

**Use of Nanotechnology**

It is used as an antibacterial coating on a plastic product, meant for personal use.


**Recommended Uses**

A computer mouse meant for use in "medical offices, libraries, and schools as well as for mobile professionals, gamers, and desktop users."


**Antimicrobial Claims**

"The special Nano coating contains antimicrobial properties built into to protect the product from bacteria surviving on its surface....

The coating uses two mechanisms to deactivate enzymes and proteins of bacteria from surviving on the surface of the product. The compound has been tested and proven effective against various bacteria.

(Disclaimer: Nano coating properties may not protect users or others against bacteria, viruses, germs, or other disease organisms. This device cannot be used as antibiotic or anti-viral medication. Do not ingest the surface material of the device under any circumstances. If you have symptoms of bacteria or viral infection please consult with your physician and seek medical attention immediately. This device does not eliminate the entire universe of bacteria or viruses. It is not a replacement for cleanliness and good personal hygiene. Please keep your hands and work area clean for optimal protection.)"


**Product Testing Information**

- 

**Company web site**: www.iogear.com  
**Company country**: USA

**Product web site**: http://www.iogear.com/main.php?

**Sources**: All data are derived from internet searches. Source URLs are given where appropriate.
Long Range Mobile Desktop (GKM541RA)

Category: Electronics and Computers
Subcategory: Computer Hardware

Number of associated products: 1
This product uses: Nano Shield

Product Info

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<tr>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>Expected Lifetime</td>
<td>1 yr</td>
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</table>

Structure of Particle and/or Substrate
It contains titanium dioxide (TiO2) & silver (Ag).

Synthesis Method
-

Use of Nanotechnology
It "is coated with a Titanium Dioxide (TiO2) and Silver (Ag) nano-particle compound."

Recommended Uses
"Enjoy the freedom of wireless connectivity with IOGEAR's long range wireless keyboard and mouse combo. The 2.4GHz ultra-range multimedia keyboard and optical mouse allow you to work up to 33 feet away from your computer. It is an ideal tool for the meeting room presentation, and for the living room home entertainment needs."

Antimicrobial Claims
"Nano Shield has been tested and proven effective to protect the product from bacteria surviving on the surface."

Product Testing Information
"*Test conducted by Japan Food Research Laboratories, Ref# 106063596."

Notes

Company web site: www.iogear.com

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Nano Shield

IOGEAR®

Category: Cross-cutting
Subcategory: Coatings

Number of associated products: 1
This product uses: N/A

Product Info

<table>
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<th>Type/Form</th>
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<tr>
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<td>Rate of Ag+ Release</td>
<td></td>
<td></td>
</tr>
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</table>

Notes

Structure of Particle and/or Substrate
It contains titanium dioxide (TiO2) & silver (Ag).

Synthesis Method

Use of Nanotechnology
It is coated with a Titanium Dioxide (TiO2) and Silver (Ag) nano-particle compound.


Recommended Uses
It can be coated on computer devices such as keyboards and mouse attachments.

Antimicrobial Claims
"Nano Shield has been tested and proven effective to protect the product from bacteria surviving on the surface"


Product Testing Information
"*Test conducted by Japan Food Research Laboratories, Ref# 106063596."


Company web site: www.iogear.com
Product web site: www.iogear.com
Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate
## Personal Security Mouse with Nano (GMEFP1W6)

**IOGEAR®**

### Category:
Electronics and Computers

### Subcategory:
Computer Hardware

### Number of associated products:
1

### This product uses:
Nano Shield

## Product Info

<table>
<thead>
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<th>Type/ Form</th>
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</table>

## Notes

**Structure of Particle and/or Substrate**
It contains titanium dioxide (TiO2) & silver (Ag).

**Synthesis Method**

**Use of Nanotechnology**

"IOGEAR's Personal Security Mouse is coated with a Titanium Dioxide (TiO2) and Silver (Ag) nano-particle compound."


**Recommended Uses**
Computer mouse.

**Antimicrobial Claims**
"The coating uses two mechanisms to deactivate enzymes and proteins to prevent a wide spectrum of bacteria, fungi, and algae from surviving on the surface of the mouse. The compound has been tested and proven effective against the settlement of harmful microbes on the insulated surface."

"Nano Shield has been tested and proven effective to protect the product from bacteria surviving on the surface"


**Product Testing Information**

"Test conducted by Japan Food Research Laboratories, Ref# 106063596"


### Company web site:
www.iogear.com  
### Company country:
USA

### Product web site:

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Wireless Desktop (GKM531RA)

IOGEAR®

<table>
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**Product Info**

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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
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</table>

**Expected Lifetime**
1 year

**Structure of Particle and/or Substrate**
It is "coated with a Titanium Dioxide (TiO2) and Silver (Ag) nano-particle compound."


**Synthesis Method**
-

**Use of Nanotechnology**
it is used as an antibacterial coating on a plastic product, meant for personal use.

**Recommended Uses**
As a keyboard and mouse for personal, home and office use.

**Antimicrobial Claims**
99.2% effective against bacterial infections (unofficial claim from interview)
"The coating uses two mechanisms to deactivate enzymes and proteins of bacteria from surviving on the surface of the product. The compound has been tested and proven effective against various bacteria.

(Disclaimer: Nano coating properties may not protect users or others against bacteria, viruses, germs, or other disease organisms. This device cannot be used as antibiotic or anti-viral medication. Do not ingest the surface material of the device under any circumstances. If you have symptoms of bacteria or viral infection please consult with your physician and seek medical attention immediately. This device does not eliminate the entire universe of bacteria or viruses. It is not a replacement for cleanliness and good personal hygiene. Please keep your hands and work area clean for optimal protection."


**Product Testing Information**
*Test conducted by Japan Food Research Laboratories, Ref# 106063596
http://www.jfrl.or.jp/e/index.htm

"The Ministry of Health, Labour and Welfare (MHLW) accredited our data on imported food as well as pesticides, antibiotics, heavy metals, environmental contaminants, aflatoxin, and food additives. The U.S. Food Safety Inspection Service (FSIS) has accredited Japan Food Research Laboratories performing analysis of Japanese beef for export, as well as for antibiotics, and pesticides."


**Company web site:** www.iogear.com
**Product web site:** http://www.iogear.com/main.php?

**Company country:** USA

**Notes**

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Wireless Laser Mouse with Nano Coating Technology (GME227RW6)  

**IOGEAR®**

**Category:** Electronics and Computers  
**Subcategory:** Computer Hardware

**Number of associated products:** 1  
**This product uses:** Nano Shield

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### Product Info

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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
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</table>

**Expected Lifetime** 
1 yr

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### Notes

**Structure of Particle and/or Substrate**  
It contains titanium dioxide (TiO2) & silver (Ag).

**Synthesis Method**  
-

**Use of Nanotechnology**  
"IOGEAR's Wireless Laser Mouse is coated with a Titanium Dioxide (TiO2) and Silver (Ag) nano-particle compound."


**Recommended Uses**  
Wireless computer mouse.

**Antimicrobial Claims**  
"The coating uses two mechanisms to deactivate enzymes and proteins of bacteria from surviving on the surface of the product. The compound has been tested and proven effective against various bacteria."

"Nano Shield has been tested and proven effective to protect the product from bacteria surviving on the surface."


**Product Testing Information**  
"**Test conducted by Japan Food Research Laboratories, Ref# 106063596.**"


---

**Company web site:** www.iogear.com  
**Product web site:** http://www.iogear.com/main.php?  
**Company country:** USA
Cordless Ceramic Flat Iron
ionFX, Inc.

Category: Health and Fitness
Subcategory: Personal Care

Number of associated products: 1
This product uses: N/A

Product Info

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<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
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</table>

Notes

Structure of Particle and/or Substrate
It contains tourmaline with nano silver.

Synthesis Method

Use of Nanotechnology
It uses "nano silver (AG+) tourmaline ceramic infused plates and superior manufacturing process we have created a modern work of art." ionFX, Inc., "Products," http://ionfxonline.com/products.htm (accessed July 9, 2007).

Recommended Uses
Hair iron.

Antimicrobial Claims
"The ceramic plates are infused with tourmaline and nano silver (AG+). Tourmaline is a crystal that when heated naturally emits negative ions that help close the hair cuticle and seal in moisture. Nano silver is literally silver that has been dissected to the point where its atomic structure is one tenth of a diameter of a single hair strand. Nano silver naturally sterilizes and deodorizes pathogens without causing any known harm to the human body. Before the invention of penicillin, silver was extensively used to cure ailments." ionFX, Inc., "Products," http://ionfxonline.com/products.htm (accessed July 9, 2007).

Product Testing Information

Company web site: ionfxonline.com
Product web site: http://ionfxonline.com/products.htm

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**Food Containers**

**JR Nanotech PLC**

**Category:** Food and Beverage  
**Subcategory:** Storage  
**Number of associated products:** 1  
**This product uses:** NTbase Nanosilver Master Batch

### Product Info

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### Structure of Particle and/or Substrate

It contains nano silver within a polymer.

### Synthesis Method

- 

### Use of Nanotechnology

This product is derived from NTbase Nano-silver polymer masterbatch and therefore the nano silver is contained within a polymer.

### Recommended Uses

Food storage.

### Antimicrobial Claims

"Nanosilver is environment friendly, and does not carry any harmful toxin that might be harmful to human body. Nanosilver has an antibacterial effect which can kill up to 650 different types of bacteria. Nanosilver has much stronger germicidal capability than those of chloric acid based germicides. Because Nanosilver is harmless to human body, it is widely used in everyday products such as electronics, antibacterial products, and deodorants. Nanosilver increases immunity in animals and plants, and it also increases resistance to viruses and bacteria."  

### Product Testing Information

**MSDS:** NTbase Co., Ltd. 1135-5 Ingye-dong, Paldal-gu, Suwon-city  
82-31-237-8360 Gyeonggi-do, Korea  
"Korea Testing & Research Institute For Chemical Industry (KOTRIC) carried out the allergen test, test method - ISO 10993-10:1995(E), on behalf of the nano-silver manufacturer - NT Base in April 2004. The conclusion was that nano-silver powder did not induce skin sensitisation on albino guinea-pigs."  

"LD50 for Nano-Silver  
Test carried out on behalf of the principals, by Korea Testing & Research Institute for Chemical Industry (KOTRIC). For full test or any enquiry upon request.  
info@jrnanotech.com  
There were no dead animals tested with the dose of 5g/kg body weight"  

"Purity (American Society for Testing and Materials (ASTM) standard test methods: D1348 and D3516).... Heavy metal residual in nano-silver yarn (ASTM)  
* Arsenic (As) <0.06ppm  
* Cadmium (Cd) <0.05ppm  
* Mercury (Hg) <0.05ppm  
* Lead (Pb) 0.3ppm."  

### Notes

**Company web site:** www.jrnanotech.com  
**Product web site:** http://www.jrnanotech.com/consumer_goods.html  
**Company country:** United Kingdom

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
SoleFresh™ Nano-silver Socks
JR Nanotech PLC

Category: Health and Fitness
Subcategory: Clothing
Number of associated products: 3
This product uses: NTbase Nanosilver Powder

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>25-250 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>50 washes</td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
Nano Silver Powder: Ag purity of 99.9%; CAS Number: 7440-22-4.
Socks are 80% Cotton, 20% Elastic yarn and Contains 0.3%/w Nano-silver.
"Particle size of Nano-silver Ranging from 25nm to 250nm."

Synthesis Method

Use of Nanotechnology
They contain 0.3%/w Nano-silver within the cotton of the sock along with the Nano-Silver Cotton Yarns which also contain Nano-silver 0.3%/w.

Recommended Uses
Socks

Antimicrobial Claims
they “Eliminate foot odour, Curing Athlete's Foot, and Prevent foot infection in patients with diabetes.”

"Broad spectrum antimicrobial properties of Nano-Silver American Association of Textile Chemists and Colorists (AATCC) Aureobassidium pullulans ....
Antifungal properties American Association of Textile Chemists and Colorists (AATCC)....
Anti-yeast properties American Association of Textile Chemists and Colorists (AATCC)....
Anti-algae properties.... Anti mould and mildew”

Product Testing Information
MSDS: NTbase Co.,Ltd. 1135-5 Ingye-dong, Paldal-gu, Suwon-city
82-31-237-6836 Gyeonggi-do, Korea
"Korea Testing & Research Institute For Chemical Industry (KOTRIC) carried out the allergen test, test method - ISO 10993-10:1995(E), on behalf of the nano-silver manufacturer - NT Base in April 2004.
The conclusion was that nano-silver powder did not induce skin sensitisation on albino guinea-pigs."

"LD50 for Nano-Silver
Test carried out on behalf of the principals, by Korea Testing & Research Institute for Chemical Industry (KOTRIC). For full test or any enquiry upon request.
info@jrnanotech.com
There were no dead animals tested with the dose of 5g/kg body weight”

"Purity (American Society for Testing and Materials (ASTM) standard test methods: D1348 and D3516)"
"Heavy metal residual in nano-silver yarn (ASTM)
* Arsenic (As) <0.06ppm * Cadmium (Cd) <0.05ppm * Mercury (Hg) <0.05ppm * Lead (Pb) 0.3ppm"

Company web site: www.jrnanotech.com
Product web site: http://www.jrnanotech.com/socks.html

Company country: United Kingdom

Sources: All data are derived from internet searches. Source URLs are given where appropriate
# Nano-tex Silver Nano-Sock

*Lexon Nanotech (LNT), Inc.*

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** N/A

## Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating</td>
<td>10-30 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>14.6 mg/L</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>100 washes</td>
</tr>
</tbody>
</table>

## Notes

**Structure of Particle and/or Substrate**

-  

**Synthesis Method**

-  

**Use of Nanotechnology**

"molecularly-bonded and nano sized silver, metal compound, amino acid, glutamic acid, polyh siloxane, cotton, nylon, and others."


**Recommended Uses**

Socks  

**Antimicrobial Claims**

"Nano-tex kills athlete’s foot germs and staphylococcus, removing odor while keeping feet dry... Nano-tex works by neutralizing the odor from your feet while wearing the shoes.(odor removal 98%)"


## Product Testing Information

Product Test Results available on:  
[http://www.lexonkorea.com/eng-site/data/common.jsp](http://www.lexonkorea.com/eng-site/data/common.jsp)  
downloaded test results are in company folder  
"Progress Report Card of Chemistry Exam; Fungi-athlete's foot; SGS test report"

**Company web site:** [www.lexonnanotech.com](http://www.lexonnanotech.com)  
**Product web site:** [http://www.lexonnanotech.com/sock.html](http://www.lexonnanotech.com/sock.html)  
**Company country:** USA  
**Number of associated products:** 1  
**This product uses:** N/A  

Sources: All data are derived from internet searches. Source URLs are given where appropriate
## Bio Silver & Bio Shield

**LG Electronics Inc.**

<table>
<thead>
<tr>
<th>Category:</th>
<th>Cross-cutting</th>
<th>Number of associated products:</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Coatings</td>
<td>This product uses:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating</td>
<td></td>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Structure of Particle and/or Substrate

- 

### Synthesis Method

- 

### Use of Nanotechnology

In the frontload washer, they are "coated by silver nano particles (Ag+)".

In the LG Cyking vacuum cleaner, they are "with nano-sized silver particles coated and melted in keeps various bacteria from breeding."

In the Side-by-Side refrigerators, the "silver particles coat the interior of LG side by side refrigerator (Bio silver) and the gasket (Bio shield) of the refrigerator."


### Recommended Uses

Washing machine, bagless vacuum cleaner, refrigerator.

### Antimicrobial Claims

"Adopting the silver nano and carbon nano technology to enable LGE to provide breakthrough benefits, such as antibacterial and deodorization features, in air conditioners, refrigerators, vacuum cleaner and washing machines....

When silver is set at the state of nano, it produces very powerful sterilization and antibacterial properties. Therefore, nano technology offers a wide variety of applications for home appliances."


### Product Testing Information

| Company web site: | www.lge.com | Company country: | South Korea |
| Product web site: | http://www.lge.com/about/press_release/detail/PRE | |

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
Cyking Vacuum Cleaner
LG Electronics Inc.

Category: Home and Garden
Subcategory: Cleaning
Number of associated products: 3
This product uses: Bio Silver & Bio Shield

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating</td>
<td>-</td>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
-

Synthesis Method
-

Use of Nanotechnology
In the LG Cyking vacuum cleaner, they are "with nano-sized silver particles coated and melted in keeps various bacteria from breeding."

Recommended Uses
Vacuum cleaner.

Antimicrobial Claims
"Adopting the silver nano and carbon nano technology to enable LGE to provide breakthrough benefits, such as antibacterial and deodorization features, in air conditioners, refrigerators, vacuum cleaner and washing machines."

When silver is set at the state of nano, it produces very powerful sterilization and antibacterial properties. Therefore, nano technology offers a wide variety of applications for home appliances."

Product Testing Information
-

Company web site: www.lge.com
Company country: South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
LG® Antibacterial Mobile Phone
LG Electronics Inc.

Category: Electronics and Computers
Subcategory: Mobile Devices and
Number of associated products: 1
This product uses: Bio Silver & Bio Shield

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating</td>
<td>-</td>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
- 

Synthesis Method
- 

Use of Nanotechnology
A silver nano coating is placed on the surface of the phone.

Recommended Uses
Mobile phone.

Antimicrobial Claims

Product Testing Information
- 

Company web site: www.lge.com
Product web site: http://www.lge.com
Company country: South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Refrigerator | Bottom Mount

LG Electronics Inc.

Category: Appliances
Subcategory: Large Kitchen Appliances

Number of associated products: 2
This product uses: Bio Silver & Bio Shield

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating</td>
<td>-</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

| Conc. of Nano Ag | Rate of Ag+ Release | Expected Lifetime | |
|------------------|---------------------|-------------------||
| -                | -                   | -                 ||

Notes

Structure of Particle and/or Substrate

- 

Synthesis Method

- 

Use of Nanotechnology


Recommended Uses

Refrigerator.

Antimicrobial Claims

"Adopting the silver nano and carbon nano technology to enable LGE to provide breakthrough benefits, such as antibacterial and deodorization features, in air conditioners, refrigerators, vacuum cleaner and washing machines...."


Product Testing Information

Company web site: www.lge.com

Company country: South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Refrigerator | Side-By-Side
LG Electronics Inc.

Category: Appliances
Subcategory: Large Kitchen Appliances

Number of associated products: 3
This product uses: Bio Silver & Bio Shield

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersewe?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating</td>
<td>-</td>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>-</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
-

Synthesis Method
-

Use of Nanotechnology
"Silver particles coat the interior of LG side by side refrigerator (Bio silver) and the gasket (Bio shield) of the refrigerator."


Recommended Uses
Refrigerator.

Antimicrobial Claims
"Adopting the silver nano and carbon nano technology to enable LGE to provide breakthrough benefits, such as antibacterial and deodorization features, in air conditioners, refrigerators, vacuum cleaner and washing machines....

When silver is set at the state of nano, it produces very powerful sterilization and antibacterial properties. Therefore, nano technology offers a wide variety of applications for home appliances." (retrieved 06.12.2007) from june 28, 2004 press release


Product Testing Information
-

Company web site: www.lge.com
Product web site: 

Company country: South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
## Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating</td>
<td>-</td>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

## Notes

### Structure of Particle and/or Substrate

- 

### Synthesis Method

- 

### Use of Nanotechnology

In the Side-by-Side refrigerators, the "silver particles coat the interior of LG side by side refrigerator (Bio silver) and the gasket (Bio shield) of the refrigerator."


### Recommended Uses

Refrigerator.

### Antimicrobial Claims

"Adopting the silver nano and carbon nano technology to enable LGE to provide breakthrough benefits, such as antibacterial and deodorization features, in air conditioners, refrigerators, vacuum cleaner and washing machines....

When silver is set at the state of nano, it produces very powerful sterilization and antibacterial properties. Therefore, nano technology offers a wide variety of applications for home appliances."


### Product Testing Information

- 

**Company website:** [www.lge.com](http://www.lge.com)  
**Company country:** South Korea
**Washing Machine**

*LG Electronics Inc.*

<table>
<thead>
<tr>
<th>Category:</th>
<th>Appliances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Large Kitchen Appliances</td>
</tr>
<tr>
<td>Number of associated products:</td>
<td>1</td>
</tr>
<tr>
<td>This product uses:</td>
<td>Bio Silver &amp; Bio Shield</td>
</tr>
</tbody>
</table>

## Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating</td>
<td>-</td>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

## Notes

**Structure of Particle and/or Substrate**

- 

**Synthesis Method**

- 

**Use of Nanotechnology**

*In the frontload washer, they are coated by silver nano particles (Ag+).*


"LG washing machine takes care of the clothes, it uses Bio Care cycle to get ride of dirt, the drum is covered with nano-silver particles to ensure a better sterilization."

**Recommended Uses**

- Washing machine.

**Antimicrobial Claims**

"Adopting the silver nano and carbon nano technology to enable LGE to provide breakthrough benefits, such as antibacterial and deodorization features, in air conditioners, refrigerators, vacuum cleaner and washing machines....

*When silver is set at the state of nano, it produces very powerful sterilization and antibacterial properties. Therefore, nano technology offers a wide variety of applications for home appliances.*"


**Product Testing Information**

<table>
<thead>
<tr>
<th>Company web site:</th>
<th><a href="http://www.lge.com">www.lge.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Product web site:</td>
<td></td>
</tr>
<tr>
<td>Company country:</td>
<td>South Korea</td>
</tr>
</tbody>
</table>

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Look Kirei no Mist
Lion Corporation

Category: Home and Garden
Subcategory: Cleaning

Number of associated products: 3
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating &amp; Spray</td>
<td>15 nm</td>
<td>Nano</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Structure of Particle and/or Substrate
"New disinfectant "silver ion" ingredient: ionized nano-silver particle attached to the surface of alumina-silica just 15 nanometers in diameter."

Synthesis Method

Use of Nanotechnology
"Just spray and disinfectant silver ions control slime and unpleasant smells around kitchen drains." (for kitchen)
"Just spray and disinfectant silver ions prevent pink slime on bathroom floors, drain outlets and shampoo storage racks and other bathroom-related areas" (for Bathrooms)
"Just spray and disinfectant silver ions prevent unpleasant toilet smells and eliminate odors." (for Toilets)

Recommended Uses
As a disinfectant spray.

Antimicrobial Claims
"Just spray and disinfectant silver ions curb gunk and odor caused by bacterial infestation to preserve cleanliness"

Product Testing Information

Company web site: http://www.lion.co.jp/en/

Company country: Japan

Notes

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Klenz Nano Cleaning Tool
MAHA Corp.

Category: Home and Garden
Subcategory: Cleaning

Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>25 nm</td>
<td>Nano</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology

Recommended Uses
"From baby goods to kitchen utensils, you name it."

Antimicrobial Claims
"Sterilize and deodorize your shoes with nano silver radical!
Now if you treat the cradle of bacteria and shoes by klenz, athletes foot will be cured.
Multi functional use
Due to non poisonous properties of nano silver, this product can be used for many sterilizing purposes other than shoes....
The nano-silver particles typically measure 25nm and they have extremely large relative surface area, increasing their contact with bacteria or fungi, and improving its bactericidal and fungicidal effectiveness.
The nano-silver when in contact with bacteria and fungus will adversely affect cellular metabolism and inhibit cell growth. The nano-silver suppresses respiration, basal metabolism of electron transfer system, and transport the substrate in the microbial cell.
The nano-silver inhibits multiplication and growth of those bacteria and fungi which cause infection, odor, itch and sores."

Product Testing Information

Company web site: mahacorp.b2bgiant.com
Product web site: http://www.b2bgiant.com/view_details.php?

Company country: South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
## Curad® Silver Bandages
**Medline Industries, Inc.**

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

### Structure of Particle and/or Substrate

“The metallic silver, contained in the polyethylene net in the wound pads.”


### Synthesis Method

**Use of Nanotechnology**

A polyethylene net is either coated with or spun with silver nanoparticles. Moisture from a wound or gel allows the release and migration of Ag+ into the wound area.

### Recommended Uses

**Wound care.**

### Antimicrobial Claims

"New Curad Silver Bandages use silver in the wound pad as a natural antibacterial. Laboratory testing showed that silver reduced bacterial growth like Staph. aureus, E. coli, E. hirae and Pseudomonas aeruginosa - a powerful germ that does not respond to many antibacterials-in the dressing for 24 hours.” (retrieved 07.17.2007)


### Product Testing Information

- **Company web site:** [www.medline.com](http://www.medline.com)

**Company country:** USA

### Notes

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
S-Nano Ionic Ceramic Brushes

Metropolis Technology

Category: Health and Fitness
Subcategory: Personal Care

Number of associated products: 6
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersible?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>-</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate

- 

Synthesis Method

- 

Use of Nanotechnology

“Having these silver ions embedded in our S-Nano tools provides a colorless anti-bacterial armor and enables us to benefit from the sanitizing power of the sophisticated silver nanotechnology.”

Recommended Uses

hair brush

Antimicrobial Claims

“Purifies & Removes Odors from Hair”

“Having these silver ions embedded in our S-Nano tools provides a colorless anti-bacterial armor and enables us to benefit from the sanitizing power of the sophisticated silver nanotechnology. Bacteria are blocked from contaminating and ‘odorizing’, providing a safer and cleaner environment in the home and workplace.”

Product Testing Information

- 

Company web site: www.metropolistechnology.com
Product web site: http://www.metropolistechnology.com/sitelaunch.html

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
### S-Nano Ionic Digital Iron

**Category:** Health and Fitness  
**Subcategory:** Personal Care

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>-</td>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

**Structure of Particle and/or Substrate**

- 

**Synthesis Method**

- 

**Use of Nanotechnology**

"Having these silver ions embedded in our S-Nano tools provides a colorless anti-bacterial armor and enables us to benefit from the sanitizing power of the sophisticated silver nanotechnology."


**Recommended Uses**

- hair iron

**Antimicrobial Claims**

"Purifies & Removes Odors from Hair"


"Having these silver ions embedded in our S-Nano tools provides a colorless anti-bacterial armor and enables us to benefit from the sanitizing power of the sophisticated silver nanotechnology. Bacteria are blocked from contaminating and 'odorizing', providing a safer and cleaner environment in the home and workplace."


**Product Testing Information**

- 

**Company web site:** [www.metropolistechnology.com](http://www.metropolistechnology.com)  
**Company country:** USA

**Product web site:** [http://www.metropolistechnology.com/sitelaunch.html](http://www.metropolistechnology.com/sitelaunch.html)  

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
# S-Nano Ionic Dryer

**Metropolis Technology**

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Personal Care</td>
</tr>
<tr>
<td>Number of associated products:</td>
<td>1</td>
</tr>
<tr>
<td>This product uses:</td>
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## Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>-</td>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

## Notes

### Structure of Particle and/or Substrate

- 

### Synthesis Method

- 

### Use of Nanotechnology

"Having these silver ions embedded in our S-Nano tools provides a colorless anti-bacterial armor and enables us to benefit from the sanitizing power of the sophisticated silver nanotechnology."


### Recommended Uses

Hair dryer.

### Antimicrobial Claims

"Purifies & Removes Odors from Hair"


"Having these silver ions embedded in our S-Nano tools provides a colorless anti-bacterial armor and enables us to benefit from the sanitizing power of the sophisticated silver nanotechnology. Bacteria are blocked from contaminating and 'odorizing', providing a safer and cleaner environment in the home and workplace."


### Product Testing Information

<table>
<thead>
<tr>
<th>Company web site:</th>
<th><a href="http://www.metropolistechnology.com">www.metropolistechnology.com</a></th>
</tr>
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<tbody>
<tr>
<td>Product web site:</td>
<td><a href="http://www.metropolistechnology.com/sitelaunch.html">http://www.metropolistechnology.com/sitelaunch.html</a></td>
</tr>
</tbody>
</table>

**Company country:** USA

*Sources: All data are derived from internet searches. Source URLs are given where appropriate*
## Silver Nano Odor Free Rubber Gloves

*Misian Co., Ltd.*

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** N/A

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
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</thead>
<tbody>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

### Notes

**Structure of Particle and/or Substrate**  
-  

**Synthesis Method**  
-  

**Use of Nanotechnology**  
"Silver residue is mixed in with the rubber gloves for smoothness, easing the process of taking the gloves on and off."

**Recommended Uses**  
Gloves for cleaning and housework.

**Antimicrobial Claims**  
"Effectiveness of Silver: Odorless, disinfected, and prevents housewives' eczema skin condition."

**Product Testing Information**  
It was "developed with application of Silver Nano Technology, developed by Pohang University of Science and Technology."
"The product is the fruit of 4 years research with consultation by Pohang University of Science and Technology."

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate
# Ankle Brace

**NanBabies™**

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
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</tr>
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<tr>
<td>This product uses:</td>
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## Product Info

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</table>

## Notes

**Structure of Particle and/or Substrate**
- 

**Synthesis Method**
- 

**Use of Nanotechnology**

A "silver plated material." (Personal communication)

**Recommended Uses**

"Adjustable velcro closures can be adjusted to fit your right or left ankle."


**Antimicrobial Claims**

"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."


**Product Testing Information**
- 

**Company web site:** nanbabies.com


**Company country:** USA

*Sources: All data are derived from internet searches. Source URLs are given where appropriate*
### Arm Sling

**NanBabies™**

| Category: | Health and Fitness |
| Subcategory: | Clothing |
| Number of associated products: | 1 |
| This product uses: | NanBabies™ Silver Ion Material |

#### Product Info

<table>
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<td>Expected Lifetime</td>
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</tbody>
</table>

#### Notes

- **Structure of Particle and/or Substrate**

- **Synthesis Method**

- **Use of Nanotechnology**
  
  "A "silver plated material." (Personal communication)"

- **Recommended Uses**
  
  "Our Arm Slings are made out of Polyester and cotton bindings with silver ion fabric lining. Closures will adjust to fit any right or left arm."  

- **Antimicrobial Claims**
  
  "Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."  

#### Product Testing Information

| Company web site: | nanbabies.com |
| Company country: | USA |
Athletic Supporter
NanBabies™

Category: Health and Fitness
Subcategory: Clothing

Number of associated products: 1
This product uses: NanBabies™ Silver Ion Material

Product Info

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Notes

Structure of Particle and/or Substrate
- 

Synthesis Method
- 

Use of Nanotechnology
A "silver plated material." (Personal communication)

Recommended Uses
"Our Athletic Supporters are made to kill the bacteria that causes jock itch. Made from Cotton, with elastic waist band, lined with silver ion fabric."

Antimicrobial Claims
"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."

Product Testing Information
- 

Company web site: nanbabies.com

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**Ball Cap**

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** NanBabies™ Silver Ion Material

### Product Info

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</table>

### Notes

**Structure of Particle and/or Substrate**

- 

**Synthesis Method**

- 

**Use of Nanotechnology**

A "silver plated material." (Personal communication)

**Recommended Uses**

"Our ball caps have adjustable velcro closures. The inner band of the cap is lined with Silver ion material. Eliminating the build-up of germs and bacteria, and odors from sweat."


**Antimicrobial Claims**

"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."


**Product Testing Information**

- 

**Company website:** nanbabies.com  
**Company country:** USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**Bandana "Do Rag"**

**NanBabies™**

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** NanBabies™ Silver Ion Material

### Product Info

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### Notes

**Structure of Particle and/or Substrate**

- 

**Synthesis Method**

- 

**Use of Nanotechnology**

A "silver plated material." (Personal communication)

**Recommended Uses**

"Our Head Wraps are made out of cotton materials lined with silver ion fabric. Do Rags are ideal for sports, bike riders, and are even worn by surgeons and medical professionals."


**Antimicrobial Claims**

"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."


### Product Testing Information

- 

**Company web site:** nanbabies.com  
**Product web site:** http://nanbabies.com/SupportProductsStore.htm  
**Company country:** USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Bio Safe Hand and Face Kit

NanBabies™

Category: Health and Fitness
Subcategory: Personal Care
Number of associated products: 1
This product uses: NanBabies™ Silver Ion Material

Product Info

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Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology

A "silver plated material." (Personal communication)

Recommended Uses

"Protect yourself from airborne virus and bacteria.

Kit contains:

* 1 - 1oz Element 47 Spray
* 1 - Silver lined face mask
* 1 - Silver Ion Hand wipe"


Antimicrobial Claims

"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."


Product Testing Information

Company web site: nanbabies.com

Company country: USA

Notes

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
### Product Info

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</table>

### Notes

**Structure of Particle and/or Substrate**
- 

**Synthesis Method**
- 

**Use of Nanotechnology**

A "silver plated material." (Personal communication)

**Recommended Uses**

"Our Boot Liners are made out of Nylon, fit up to men's size 12, and can be worn on both left and right feet."


**Antimicrobial Claims**

"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."


**Product Testing Information**
- 

**Company web site:** nanbabies.com

**Product web site:** http://nanbabies.com/SupportProductsStore.htm

**Company country:** USA

**Number of associated products:** 1

**This product uses:** NanBabies™ Silver Ion Material

---

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
# Carpal Tunnel Sleeve

**NanBabies™**

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
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</tr>
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<td>Number of associated products:</td>
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<tr>
<td>This product uses:</td>
<td>NanBabies™ Silver Ion Material</td>
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<td>Expected Lifetime</td>
<td>100 washes</td>
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</tbody>
</table>

## Notes

**Structure of Particle and/or Substrate**

- 

**Synthesis Method**

- 

**Use of Nanotechnology**

A "silver plated material." (Personal communication)

**Recommended Uses**

"Our Carpel Tunnel Glove is made out of Spandex, velcro, rubber backing and silver ion fabric lining."


**Antimicrobial Claims**

"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."


**Product Testing Information**

- 

**Company web site:** nanbabies.com

**Company country:** USA

**Product web site:** http://nanbabies.com/SupportProductsStore.htm

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
## Elbow Sleeve

**NanBabies™**

### Category: Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** NanBabies™ Silver Ion Material

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Classification</th>
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<tbody>
<tr>
<td>Coating</td>
<td>5-10 nm</td>
<td>-</td>
<td>-</td>
<td>Nano</td>
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</tbody>
</table>

#### Notes

**Structure of Particle and/or Substrate**

**Synthesis Method**

**Use of Nanotechnology**

A "silver plated material." (Personal communication)

**Recommended Uses**

"Our Elbow sleeves aid in aches and sores located in the elbow region. Provide light compression and support."


**Antimicrobial Claims**

"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."


**Product Testing Information**

**Company web site:** nanbabies.com  
**Product web site:** http://nanbabies.com/SupportProductsStore.htm  
**Company country:** USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Element 47 Moisturizing Spray

NanBabies™

Category: Home and Garden
Subcategory: Personal Care

Number of associated products: 2
This product uses: N/A

Product Info

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<th>Type/ Form</th>
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Notes

Structure of Particle and/or Substrate
Silver ions and it uses "nanocrystalline silver as well as other chelating agents."

Synthesis Method

Use of Nanotechnology
This appears to be a silver ion solution, "this spray uses nanocrystalline silver as well as other chelating agents. These agents increase the conductivity of the ions and allow the spray to have better retention and "staying power" on the skin."

Recommended Uses
"Nanocrystalline silver spray, perfect for cuts and abrasions. Use as deodorant, spray on fabrics or in air to remove odors, mist on plants and flowers to refresh. Safe for all ages, even pets."

Antimicrobial Claims
"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."

Product Testing Information

Company web site: nanbabies.com

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate
### Face Mask
**NanBabies™**

<table>
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<tr>
<th>Category:</th>
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<td>-</td>
<td>-</td>
<td>Expected Lifetime</td>
<td>100 washes</td>
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</table>

#### Notes

**Structure of Particle and/or Substrate**
- 

**Synthesis Method**
- 

**Use of Nanotechnology**
A "silver plated material." (Personal communication)

**Recommended Uses**
"Our Face Mask covers the nose and mouth, held in place by elastic ear loops with our patented silver ion fabric."  

**Antimicrobial Claims**
"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."

**Product Testing Information**
- 

**Company web site:** nanbabies.com  
**Product web site:** http://nanbabies.com/SupportProductsStore.htm  
**Company country:** USA

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
# FootCare Kit

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** NanBabies™ Silver Ion Material

## Product Info

<table>
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<td>-</td>
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</table>

### Structure of Particle and/or Substrate
- 

### Synthesis Method
- 

### Use of Nanotechnology
A "silver plated material." (Personal communication)

### Recommended Uses
* Complete footcare kit contains:
  * 1 pair of bootliner
  * 2 - 1oz Element 47 Sprays
  * 3 packs - Silver Strips (5 strips each)"


### Antimicrobial Claims
"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."


## Product Testing Information

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<th>Company country:</th>
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# Handkerchief

**NanBabies™**

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<tr>
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<td>-</td>
<td>Nano</td>
<td>100 washes</td>
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## Notes

**Structure of Particle and/or Substrate**
-  

**Synthesis Method**
-  

**Use of Nanotechnology**

A "silver plated material." (Personal communication)

**Recommended Uses**

"Our Handkerchiefs are made out of 100% Cotton or Nylon and lined with silver ion fabric."


**Antimicrobial Claims**

"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."


**Product Testing Information**

-  

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.

**Company web site:** nanbabies.com

**Product web site:** http://nanbabies.com/SupportProductsStore.htm

**Company country:** USA
Knee Brace

Category: Health and Fitness
Subcategory: Clothing

Number of associated products: 1
This product uses: NanBabies™ Silver Ion Material

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Notes

Structure of Particle and/or Substrate
- 

Synthesis Method
- 

Use of Nanotechnology
A "silver plated material." (Personal communication)

Recommended Uses
"Wrist Braces are made out of an elastic material, velcro and are lined with our silver ion fabric. They can be worn on either the left or right wrists comfortably." NanBabies, "Nanbabies Support Products," http://nanbabies.com/SupportProductsStore.htm (accessed June 20, 2007).

Antimicrobial Claims
"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."

Product Testing Information

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<th>Company web site:</th>
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<th>Company country: USA</th>
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Sources: All data are derived from internet searches. Source URLs are given where appropriate
### Leg Wrap

**NanBabies™**

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** NanBabies™ Silver Ion Material

#### Product Info

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<td>Coating</td>
<td>5-10 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expected Lifetime</td>
<td></td>
<td>100 washes</td>
<td></td>
</tr>
</tbody>
</table>

#### Structure of Particle and/or Substrate

- 

#### Synthesis Method

- 

#### Use of Nanotechnology

*“silver plated material.” (Personal communication)*

#### Recommended Uses

*“Our Leg Wraps are made out of spandex elastic and lined with silver ion fabric and an adjustable Velcro that can be adjusted to fit any size.”*  

#### Antimicrobial Claims

*“Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria.”*  

#### Product Testing Information

- 

**Company web site:** nanbabies.com  
**Product web site:** http://nanbabies.com/SupportProductsStore.htm  
**Company country:** USA

---

*Sources: All data are derived from internet searches. Source URLs are given where appropriate*
# Men's Boxers

**NanBabies™**

**Category:** Health and Fitness  
**Subcategory:** Clothing

**Number of associated products:** 1  
**This product uses:** NanBabies™ Silver Ion Material

## Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating</td>
<td>5-10 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Expected Lifetime</td>
<td>100 washes</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

## Notes

### Structure of Particle and/or Substrate

- **Use of Nanotechnology**
  
  An "silver plated material." (Personal communication)

### Synthesis Method

- **Recommended Uses**
  "Men's Boxers are lined in the waist band and other important areas. available in sizes S-XL."

### Antimicrobial Claims

"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."


### Product Testing Information

**Company web site:** nanbabies.com  
**Company country:** USA

**Product web site:** http://nanbabies.com/SupportProductsStore.htm

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
NanBabies™ Silver Ion Material

Category: Cross-cutting
Subcategory: Fabric Thread

Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
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<td>No</td>
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<tr>
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<td>Rate of Ag+ Release</td>
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<td></td>
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<td>-</td>
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</tr>
</tbody>
</table>

Expected Lifetime
100 washes

Notes

Structure of Particle and/or Substrate
-

Synthesis Method
-

Use of Nanotechnology
A "silver plated material." (Personal communication)

Recommended Uses
Coating for fabric.

Antimicrobial Claims
"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."

Product Testing Information

Company web site: nanbabies.com
Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**Shoe Inserts**

*NanBabies™*

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
<th>Number of associated products:</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Clothing</td>
<td>This product uses:</td>
<td>NanBabies™ Silver Ion Material</td>
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### Product Info

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</table>

### Notes

**Structure of Particle and/or Substrate**

- 

**Synthesis Method**

- 

**Use of Nanotechnology**

A "silver plated material." (Personal communication)

**Recommended Uses**


**Antimicrobial Claims**

"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."


**Product Testing Information**

- 

**Company web site:** nanbabies.com  
**Product web site:** http://nanbabies.com/SupportProductsStore.htm  
**Company country:** USA

---

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Women's Bra
NanBabies™

Category: Health and Fitness
Subcategory: Clothing
Number of associated products: 1
This product uses: NanBabies™ Silver Ion Material

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
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<tr>
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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
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</tbody>
</table>

Notes

Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology
A "silver plated material." (Personal communication)

Recommended Uses

Antimicrobial Claims
"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."

Product Testing Information

Company web site: nanbabies.com

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Women's Briefs
NanBabies™

Category: Health and Fitness
Subcategory: Clothing

Number of associated products: 1
This product uses: NanBabies™ Silver Ion Material

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
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<th>Is the use disperseve?</th>
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<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>100 washes</td>
<td>No</td>
</tr>
</tbody>
</table>

Notes

Recommended Uses
"Women's briefs are available in lacey boy cut or cotton briefs. Each style features a silver ion panel for treatment of yeast or odor. Handwash."

Antimicrobial Claims
"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."

Product Testing Information

Company website: nanbabies.com

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Wrist Band
NanBabies™

Category: Health and Fitness
Subcategory: Clothing

Number of associated products: 1
This product uses: NanBabies™ Silver Ion Material

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
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<tbody>
<tr>
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<td>5-10 nm</td>
<td>Nano</td>
<td>No</td>
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<tr>
<td>Conc. of Nano Ag</td>
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<td></td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td></td>
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</tbody>
</table>

Expected Lifetime
100 washes

Structure of Particle and/or Substrate
-

Synthesis Method
-

Use of Nanotechnology
A "silver plated material." (Personal communication)

Recommended Uses
"Wrist Band with velcro closure."

Antimicrobial Claims
"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."

Product Testing Information
-

Company web site: nanbabies.com

Company country: USA

Notes

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Wrist Brace
NanBabies™

Category: Health and Fitness
Subcategory: Clothing

Number of associated products: 1
This product uses: NanBabies™ Silver Ion Material

Product Info

<table>
<thead>
<tr>
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<th>Particle Size</th>
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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
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</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology
A “silver plated material.” (Personal communication)

Recommended Uses
"Wrist Braces are made out of an elastic material, velcro and are lined with our silver ion fabric. They can be worn on either the left or right wrists comfortably."

Antimicrobial Claims
"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."

Product Testing Information

Company web site: nanbabies.com

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate
Wrist Sleeve

NanBabies™

Category: Health and Fitness
Subcategory: Clothing

Number of associated products: 1
This product uses: NanBabies™ Silver Ion Material

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
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<tr>
<td>Coating</td>
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<td>Yes</td>
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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
<td>100 washes</td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
- 

Synthesis Method
- 

Use of Nanotechnology
A "silver plated material." (Personal communication)

Recommended Uses
"Wrist Sleeves are made out of spandex material and are lined with silver ion fabric that can be slipped on the left or right wrist comfortably."

Antimicrobial Claims
"Silver science offers several advantages over traditional drug therapy. It works against all types of bacteria and viruses, even killing antibiotic resistant strains as well as all fungal infections. This is the key, because no other single antibiotic works against all types of bacteria."

Product Testing Information

Company web site: nanbabies.com
Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Antibacterial ATM Button
Nano Care Technology Ltd

**Category:** Public  
**Subcategory:** Hardware

**Type/Form**  
**Particle Size** 50 nm

**Conc. of Nano Ag**

**Rate of Ag+ Release**

**Classification** Nano

**Expected Lifetime**

**Is the use disperseve?** No

---

### Notes

**Structure of Particle and/or Substrate**

**Synthesis Method**

**Use of Nanotechnology**

*It is applied in a coating of thickness 2.88–3.79 micro meters (average 3.32 micro meters)*

"Preferred Substrates: Most solid materials which can stand temperature at least 150 degrees C, such as metal, glass, ceramic, plastic, leather, fiber, stone, rubber, paper, etc."


**Recommended Uses**

"Typical Applications: Tableware, kitchenware, personal care products, watch accessories, door handles, pet care products, public facilities, etc."


**Antimicrobial Claims**

"On the completion of four years R&D program, NCT is pleased to introduce a revolutionary nano-silver based patented technology to be applied on the surface of products, providing antibacterial substance and hardness enhancement."


**Product Testing Information**

Included in the Fact sheet are a list of "Line Tested Properties" (Adhesion, Pencil Hardness, Acid resistance, Taber abrasion, resistant to corrosion, Dishwasher safe); "Vickers Hardness Test Results" (Scissors -- Gold, Scissors -- Black); Antimicrobial Test Results (1,2,3); "Antimold Rate"; Antimicrobial Test after Taber Abrasion"; and "FDA Test for Extractable Lead"


**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
## Antibacterial Bus/MRT Handrail

**Nano Care Technology Ltd**

### Category:
Public

### Subcategory:
Hardware

### Number of associated products:
1

### This product uses:
**NTC™ Antimicrobial & Abrasion-resistant Nano Silver Coating**

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
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</tr>
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<tbody>
<tr>
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<td>Nano/Expected Lifetime</td>
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</table>

### Structure of Particle and/or Substrate

### Synthesis Method

### Use of Nanotechnology

It is applied in a coating of thickness 2.88-3.79 micro meters (average 3.32 micro meters).

"Preferred Substrates: Most solid materials which can stand temperature at least 150 degrees C, such as metal, glass, ceramic, plastic, leather, fiber, stone, rubber, paper, etc."


### Recommended Uses

"Typical Applications: Tableware, kitchenware, personal care products, watch accessories, door handles, pet care products, public facilities, etc."


### Antimicrobial Claims

"On the completion of four years R&D program, NCT is pleased to introduce a revolutionary nano-silver based patented technology to be applied on the surface of products, providing antibacterial substance and hardness enhancement."


### Product Testing Information

Included in the Fact sheet are a list of "Line Tested Properties" (Adhesion, Pencil Hardness, Acid resistance, Taber abrasion, resistant to corrosion, Dishwasher safe); "Vickers Hardness Test Results" (Scissors -- Gold, Scissors -- Black); Antimicrobial Test Results (1,2,3); "Antimold Rate"; Antimicrobial Test after Taber Abrasion"; and "FDA Test for Extractable Lead"


### Sources:
All data are derived from internet searches. Source URLs are given where appropriate.
Antibacterial catheter
Nano Care Technology Ltd

Category: Medical Applications
Subcategory: Devices (Prolonged Contact with a...
Number of associated products: 1
This product uses: NTC™ Antimicrobial & Abrasion-resistant Nano Silver Coating

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td></td>
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</tbody>
</table>

Notes

Structure of Particle and/or Substrate
- 

Synthesis Method
-

Use of Nanotechnology
It is applied in a coating of thickness 2.88-3.79 micro meters (average 3.32 micro meters)

"Preferred Substrates: Most solid materials which can stand temperature at least 150 degrees C, such as metal, glass, ceramic, plastic, leather, fiber, stone, rubber, paper, etc."


Recommended Uses
"Typical Applications: Tableware, kitchenware, personal care products, watch accessories, door handles, pet care products, public facilities, etc."


Antimicrobial Claims
"On the completion of four years R&D program, NCT is pleased to introduce a revolutionary nano-silver based patented technology to be applied on the surface of products, providing antibacterial substance and hardness enhancement."


Product Testing Information
Included in the Fact sheet are a list of "Line Tested Properties" (Adhesion, Pencil Hardness, Acid resistance, Taber abrasion, resistant to corrosion, Dishwasher safe); "Vickers Hardness Test Results" (Scissors -- Gold, Scissors -- Black); Antimicrobial Test Results (1,2,3); "Antimold Rate"; Antimicrobial Test after Taber Abrasion"; and "FDA Test for Extractable Lead"


Sources: All data are derived from internet searches. Source URLs are given where appropriate.
### Antibacterial Elevator Handrail

**Nano Care Technology Ltd**

<table>
<thead>
<tr>
<th>Category:</th>
<th>Public</th>
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<tbody>
<tr>
<td>Subcategory:</td>
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<td>This product uses:</td>
<td>NTC™ Antimicrobial &amp; Abrasion-resistant Nano Silver Coating</td>
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<td>Particle Size</td>
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<td>Rate of Ag+ Release</td>
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<td>Expected Lifetime</td>
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### Product Info

**Structure of Particle and/or Substrate**

- 

**Synthesis Method**

- 

**Use of Nanotechnology**

It is applied in a coating of thickness 2.88~3.79 micro meters (average 3.32 micro meters)

"Preferred Substrates: Most solid materials which can stand temperature at least 150 degrees C, such as metal, glass, ceramic, plastic, leather, fiber, stone, rubber, paper, etc."


**Recommended Uses**

"Typical Applications: Tableware, kitchenware, personal care products, watch accessories, door handles, pet care products, public facilities, etc."


**Antimicrobial Claims**

"On the completion of four years R&D program, NCT is pleased to introduce a revolutionary nano-silver based patented technology to be applied on the surface of products, providing antibacterial substance and hardness enhancement."


**Product Testing Information**

Included in the Fact sheet are a list of "Line Tested Properties" (Adhesion, Pencil Hardness, Acid resistance, Taber abrasion, resistant to corrosion, Dishwasher safe);

"Vickers Hardness Test Results" (Scissors -- Gold, Scissors -- Black); Antimicrobial Test Results (1,2,3); "Antimold Rate"; Antimicrobial Test after Taber Abrasion"; and

"FDA Test for Extractable Lead"


**Company web site:** www.nanocaretech.com

**Product web site:** http://www.nanocaretech.com/En_ArticleShow.asp?

**Company country:** China

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**Antibacterial Handle**

*Nano Care Technology Ltd*

**Category:** Public  
**Subcategory:** Hardware

**Type/Form**  
Coating

**Particle Size**  
50 nm

**Conc. of Nano Ag**

**Classification**  
Nano

**Rate of Ag+ Release**

**Expected Lifetime**

---

**Product Info**

**Is the use disperseve?**  
No

---

**Notes**

**Structure of Particle and/or Substrate**

**Synthesis Method**

**Use of Nanotechnology**

*It is applied in a coating of thickness 2.88-3.79 micro meters (average 3.32 micro meters)*

*Preferred Substrates: Most solid materials which can stand temperature at least 150 degrees C, such as metal, glass, ceramic, plastic, leather, fiber, stone, rubber, paper, etc.*


**Recommended Uses**

*Typical Applications: Tableware, kitchenware, personal care products, watch accessories, door handles, pet care products, public facilities, etc.*


**Antimicrobial Claims**

*On the completion of four years R&D program, NCT is pleased to introduce a revolutionary nano-silver based patented technology to be applied on the surface of products, providing antibacterial substance and hardness enhancement.*


**Product Testing Information**

*Included in the Fact sheet are a list of "Line Tested Properties" (Adhesion, Pencil Hardness, Acid resistance, Taber abrasion, resistant to corrosion, Dishwasher safe); "Vickers Hardness Test Results" (Scissors -- Gold, Scissors -- Black); Antimicrobial Test Results (1,2,3); "Antimold Rate"; Antimicrobial Test after Taber Abrasion"; and "FDA Test for Extractable Lead"*


**Company web site:** www.nanocaretech.com  
**Company country:** China

**Product web site:** http://www.nanocaretech.com/En_ArticleShow.asp?
Antibacterial Kitchenware
Nano Care Technology Ltd

Category: Food and Beverage
Subcategory: Cooking
Number of associated products: 1
This product uses: NCT™ Antimicrobial & Abrasion-resistant Nano Silver Coating

Product Info

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<td>Rate of Ag+ Release</td>
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<td>-</td>
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</table>

Notes

Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology
It is applied in a coating of thickness 2.88~3.79 micro meters (average 3.32 micro meters)

“Preferred Substrates: Most solid materials which can stand temperature at least 150 degrees C, such as metal, glass, ceramic, plastic, leather, fiber, stone, rubber, paper, etc.”

Recommended Uses
“Typical Applications: Tableware, kitchenware, personal care products, watch accessories, door handles, pet care products, public facilities, etc.”

Antimicrobial Claims
“On the completion of four years R&D program, NCT is pleased to introduce a revolutionary nano-silver based patented technology to be applied on the surface of products, providing antibacterial substance and hardness enhancement.”

Product Testing Information
Included in the Fact sheet are a list of "Line Tested Properties" (Adhesion, Pencil Hardness, Acid resistance, Taber abrasion, resistant to corrosion, Dishwasher safe); "Vickers Hardness Test Results" (Scissors -- Gold, Scissors -- Black); Antimicrobial Test Results (1,2,3); "Antimold Rate"; Antimicrobial Test after Taber Abrasion"; and "FDA Test for Extractable Lead";

Company web site: www.nanocaretech.com
Product web site: http://www.nanocaretech.com/En_ArticleShow.asp?

Company country: China

Sources: All data are derived from internet searches. Source URLs are given where appropriate
Antibacterial Lift Button
Nano Care Technology Ltd

Category: Public
Subcategory: Hardware

Number of associated products: 1
This product uses: NTC™ Antimicrobial & Abrasion-resistant Nano Silver Coating

Product Info

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Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology

It is applied in a coating of thickness 2.88–3.79 micro meters (average 3.32 micro meters).

“Preferred Substrates: Most solid materials which can stand temperature at least 150 degrees C, such as metal, glass, ceramic, plastic, leather, fiber, stone, rubber, paper, etc.”


Recommended Uses

"Typical Applications: Tableware, kitchenware, personal care products, watch accessories, door handles, pet care products, public facilities, etc."


Antimicrobial Claims

"On the completion of four years R&D program, NCT is pleased to introduce a revolutionary nano-silver based patented technology to be applied on the surface of products, providing antibacterial substance and hardness enhancement."


Product Testing Information

Included in the Fact sheet are a list of "Line Tested Properties" (Adhesion, Pencil Hardness, Acid resistance, Taber abrasion, resistant to corrosion, Dishwasher safe); "Vickers Hardness Test Results" (Scissors -- Gold, Scissors -- Black); Antimicrobial Test Results (1,2,3); "Antimold Rate"; Antimicrobial Test after Taber Abrasion"; and "FDA Test for Extractable Lead".


Company web site: www.nanocaretech.com
Product web site: http://www.nanocaretech.com/En_ArticleShow.asp?

Company country: China

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Antibacterial Lock
Nano Care Technology Ltd

Category: Home and Garden
Subcategory: Hardware
Number of associated products: 1
This product uses: NTC™ Antimicrobial & Abrasion-resistant Nano Silver Coating

Product Info

Type/Form          Particle Size          Classification          Is the use disperseve?
Coating            50 nm               Nano                  No
Conc. of Nano Ag   Rate of Ag+ Release Expected Lifetime

Notes

Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology

It is applied in a coating of thickness 2.88~3.79 micro meters (average 3.32 micro meters)
"Preferred Substrates: Most solid materials which can stand temperature at least 150 degrees C, such as metal, glass, ceramic, plastic, leather, fiber, stone, rubber, paper, etc."

Recommended Uses

"Typical Applications: Tableware, kitchenware, personal care products, watch accessories, door handles, pet care products, public facilities, etc."

Antimicrobial Claims

"On the completion of four years R&D program, NCT is pleased to introduce a revolutionary nano-silver based patented technology to be applied on the surface of products, providing antibacterial substance and hardness enhancement."

Product Testing Information

Included in the Fact sheet are a list of "Line Tested Properties" (Adhesion, Pencil Hardness, Acid resistance, Taber abrasion, resistant to corrosion, Dishwasher safe); "Vickers Hardness Test Results" (Scissors -- Gold, Scissors -- Black); Antimicrobial Test Results (1,2,3); "Antimold Rate"; Antimicrobial Test after Taber Abrasion"; and "FDA Test for Extractable Lead"

Company web site: www.nanocaretech.com
Product web site: http://www.nanocaretech.com/En_ArticleShow.asp?
Company country: China

Sources: All data are derived from internet searches. Source URLs are given where appropriate
# Antibacterial Make-up Instrument

## Nano Care Technology Ltd

**Category:** Health and Fitness  
**Subcategory:** Personal Care  
**Number of associated products:** 1  
**This product uses:** NCT™ Antimicrobial & Abrasion-resistant Nano Silver Coating

## Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating</td>
<td>50 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
<td></td>
</tr>
</tbody>
</table>

## Notes

### Structure of Particle and/or Substrate

- 

### Synthesis Method

- 

### Use of Nanotechnology

It is applied in a coating of thickness 2.88–3.79 micro meters (average 3.32 micro meters)  
“Preferred Substrates: Most solid materials which can stand temperature at least 150 degrees C, such as metal, glass, ceramic, plastic, leather, fiber, stone, rubber, paper, etc.”


### Recommended Uses

"Typical Applications: Tableware, kitchenware, personal care products, watch accessories, door handles, pet care products, public facilities, etc."


### Antimicrobial Claims

"On the completion of four years R&D program, NCT is pleased to introduce a revolutionary nano-silver based patented technology to be applied on the surface of products, providing antibacterial substance and hardness enhancement.”


### Product Testing Information

Included in the Fact sheet are a list of “Line Tested Properties” (Adhesion, Pencil Hardness, Acid resistance, Taber abrasion, resistant to corrosion, Dishwasher safe); "Vickers Hardness Test Results" (Scissors -- Gold, Scissors -- Black); Antimicrobial Test Results (1,2,3); "Antimold Rate"; Antimicrobial Test after Taber Abrasion"; and "FDA Test for Extractable Lead”


### Sources

All data are derived from internet searches. Source URLs are given where appropriate.
Antibacterial Orthopaedics Inserted Material
Nano Care Technology Ltd

Category: Medical Applications
Subcategory: Instruments
Number of associated products: 1
This product uses: NTC™ Antimicrobial & Abrasion-resistant Nano Silver Coating

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
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<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating</td>
<td>50 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

Conc. of Nano Ag  
Expected Lifetime

Notes

Structure of Particle and/or Substrate

Use of Nanotechnology
It is applied in a coating of thickness 2.88~3.79 micro meters (average 3.32 micro meters)

"Preferred Substrates: Most solid materials which can stand temperature at least 150 degrees C, such as metal, glass, ceramic, plastic, leather, fiber, stone, rubber, paper, etc."


Recommended Uses
"Typical Applications: Tableware, kitchenware, personal care products, watch accessories, door handles, pet care products, public facilities, etc."


Antimicrobial Claims
"On the completion of four years R&D program, NCT is pleased to introduce a revolutionary nano-silver based patented technology to be applied on the surface of products, providing antibacterial substance and hardness enhancement."


Product Testing Information
Included in the Fact sheet are a list of "Line Tested Properties" (Adhesion, Pencil Hardness, Acid resistance, Taber abrasion, resistant to corrosion, Dishwasher safe); "Vickers Hardness Test Results" (Scissors -- Gold, Scissors -- Black); Antimicrobial Test Results (1,2,3); "Antimold Rate"; Antimicrobial Test after Taber Abrasion"; and "FDA Test for Extractable Lead"


Company web site: www.nanocaretech.com
Product web site: http://www.nanocaretech.com/En_ArticleShow.asp?

Company country: China

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Antibacterial Pay Phone
Nano Care Technology Ltd

Category: Public
Subcategory: Hardware
Number of associated products: 1
This product uses: NTC™ Antimicrobial & Abrasion-resistant Nano Silver Coating

<table>
<thead>
<tr>
<th>Product Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type/Form</td>
</tr>
<tr>
<td>Coating</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology
It is applied in a coating of thickness 2.88~3.79 micro meters (average 3.32 micro meters)
“Preferred Substrates: Most solid materials which can stand temperature at least 150 degrees C, such as metal, glass, ceramic, plastic, leather, fiber, stone, rubber, paper, etc."

Recommended Uses
"Typical Applications: Tableware, kitchenware, personal care products, watch accessories, door handles, pet care products, public facilities, etc."

Antimicrobial Claims
"On the completion of four years R&D program, NCT is pleased to introduce a revolutionary nano-silver based patented technology to be applied on the surface of products, providing antibacterial substance and hardness enhancement."

Product Testing Information
Included in the Fact sheet are a list of "Line Tested Properties" (Adhesion, Pencil Hardness, Acid resistance, Taber abrasion, resistant to corrosion, Dishwasher safe); "Vickers Hardness Test Results" (Scissors -- Gold, Scissors -- Black); Antimicrobial Test Results (1,2,3); "Antimold Rate"; Antimicrobial Test after Taber Abrasion"; and "FDA Test for Extractable Lead"

Company web site: www.nanocaretech.com
Product web site: http://www.nanocaretech.com/En_ArticleShow.asp? Source country: China

Sources: All data are derived from internet searches. Source URLs are given where appropriate
Antibacterial Pet Products

Nano Care Technology Ltd

Category: Home and Garden
Subcategory: Pets
Number of associated products: 1
This product uses: NTC™ Antimicrobial & Abrasion-resistant Nano Silver Coating

Product Info

<table>
<thead>
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<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
<td>-</td>
</tr>
</tbody>
</table>

Structure of Particle and/or Substrate

- Synthesis Method

Use of Nanotechnology

It is applied in a coating of thickness 2.88~3.79 micro meters (average 3.32 micro meters)

"Preferred Substrates: Most solid materials which can stand temperature at least 150 degrees C, such as metal, glass, ceramic, plastic, leather, fiber, stone, rubber, paper, etc."


Recommended Uses

"Typical Applications: Tableware, kitchenware, personal care products, watch accessories, door handles, pet care products, public facilities, etc."


Antimicrobial Claims

"On the completion of four years R&D program, NCT is pleased to introduce a revolutionary nano-silver based patented technology to be applied on the surface of products, providing antibacterial substance and hardness enhancement."


Product Testing Information

Included in the Fact sheet are a list of "Line Tested Properties" (Adhesion, Pencil Hardness, Acid resistance, Taber abrasion, resistant to corrosion, Dishwasher safe); "Vickers Hardness Test Results" (Scissors -- Gold, Scissors -- Black); Antimicrobial Test Results (1,2,3); "Antimold Rate"; Antimicrobial Test after Taber Abrasion"; and "FDA Test for Extractable Lead"


Company web site: www.nanocaretech.com
Product web site: http://www.nanocaretech.com/En_ArticleShow.asp?
Company country: China

Sources: All data are derived from internet searches. Source URLs are given where appropriate
Antibacterial Table Ware
Nano Care Technology Ltd

Category: Food and Beverage
Subcategory: Cooking

Number of associated products: 1
This product uses: NTC™ Antimicrobial & Abrasion-resistant Nano Silver Coating

Product Info

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<tr>
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<td>50 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

Conc. of Nano Ag: Rate of Ag+ Release: Expected Lifetime: 1

Notes

Structure of Particle and/or Substrate
- 

Synthesis Method
- 

Use of Nanotechnology
It is applied in a coating of thickness 2.88-3.79 micro meters (average 3.32 micro meters)

"Preferred Substrates: Most solid materials which can stand temperature at least 150 degrees C, such as metal, glass, ceramic, plastic, leather, fiber, stone, rubber, paper, etc."

Recommended Uses
"Typical Applications: Tableware, kitchenware, personal care products, watch accessories, door handles, pet care products, public facilities, etc."

Antimicrobial Claims
"On the completion of four years R&D program, NCT is pleased to introduce a revolutionary nano-silver based patented technology to be applied on the surface of products, providing antibacterial substance and hardness enhancement."

Product Testing Information
Included in the Fact sheet are a list of "Line Tested Properties" (Adhesion, Pencil Hardness, Acid resistance, Taber abrasion, resistant to corrosion, Dishwasher safe); "Vickers Hardness Test Results" (Scissors -- Gold, Scissors -- Black); Antimicrobial Test Results (1,2,3); "Antimold Rate"; Antimicrobial Test after Taber Abrasion"; and "FDA Test for Extractable Lead"

Company web site: www.nanocaretech.com
Product web site: http://www.nanocaretech.com/En_ArticleShow.asp?

Company country: China

Sources: All data are derived from internet searches. Source URLs are given where appropriate
Antibacterial Watch Chain
Nano Care Technology Ltd

**Category:** Electronics and Computers  
**Subcategory:** Luxury  
**Number of associated products:** 1  
**This product uses:** NTC™ Antimicrobial & Abrasion-resistant Nano Silver Coating

## Product Info

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</tr>
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<td>-</td>
<td>-</td>
</tr>
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</table>

## Notes

### Structure of Particle and/or Substrate
-  

### Synthesis Method
-  

### Use of Nanotechnology

*It is applied in a coating of thickness 2.88–3.79 micro meters (average 3.32 micro meters)*  

"Preferred Substrates: Most solid materials which can stand temperature at least 150 degrees C, such as metal, glass, ceramic, plastic, leather, fiber, stone, rubber, paper, etc."  


### Recommended Uses

"Typical Applications: Tableware, kitchenware, personal care products, watch accessories, door handles, pet care products, public facilities, etc."  


### Antimicrobial Claims

"On the completion of four years R&D program, NCT is pleased to introduce a revolutionary nano-silver based patented technology to be applied on the surface of products, providing antibacterial substance and hardness enhancement."  


### Product Testing Information

Included in the Fact sheet are a list of "Line Tested Properties" (Adhesion, Pencil Hardness, Acid resistance, Taber abrasion, resistant to corrosion, Dishwasher safe); "Vickers Hardness Test Results" (Scissors -- Gold, Scissors -- Black); Antimicrobial Test Results (1,2,3); "Antimold Rate"; Antimicrobial Test after Taber Abrasion"; and "FDA Test for Extractable Lead"  


**Company web site:** www.nanocaretech.com  
**Product web site:** http://www.nanocaretech.com/En_ArticleShow.asp?  
**Company country:** China

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Antibacterial Water Tap
Nano Care Technology Ltd

Category:  Home and Garden
Subcategory: Hardware

Number of associated products: 1
This product uses: NTC™ Antimicrobial & Abrasion-resistant Nano Silver Coating

Product Info

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<tr>
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<td>Rate of Ag+ Release</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
-

Synthesis Method
-

Use of Nanotechnology
It is applied in a coating of thickness 2.88~3.79 micro meters (average 3.32 micro meters)

"Preferred Substrates: Most solid materials which can stand temperature at least 150 degrees C, such as metal, glass, ceramic, plastic, leather, fiber, stone, rubber, paper, etc."


Recommended Uses
"Typical Applications: Tableware, kitchenware, personal care products, watch accessories, door handles, pet care products, public facilities, etc."


Antimicrobial Claims
"On the completion of four years R&D program, NCT is pleased to introduce a revolutionary nano-silver based patented technology to be applied on the surface of products, providing antibacterial substance and hardness enhancement."


Product Testing Information
Included in the Fact sheet are a list of "Line Tested Properties" (Adhesion, Pencil Hardness, Acid resistance, Taber abrasion, resistant to corrosion, Dishwasher safe); "Vickers Hardness Test Results" (Scissors -- Gold, Scissors -- Black); Antimicrobial Test Results (1,2,3); "Antimold Rate"; Antimicrobial Test after Taber Abrasion"; and "FDA Test for Extractable Lead"


Company web site: www.nanocaretech.com
Product web site: http://www.nanocaretech.com/En_ArticleShow.asp?

Company country: China

Sources: All data are derived from internet searches. Source URLs are given where appropriate
**NTC™ Antimicrobial & Abrasion-resistant Nano Silver Coating**

**Nano Care Technology Ltd**

**Category:** Cross-cutting  
**Subcategory:** Coatings

**Number of associated products:** 1  
**This product uses:** N/A

### Product Info

<table>
<thead>
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<tbody>
<tr>
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<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Notes

#### Structure of Particle and/or Substrate
-

#### Synthesis Method
-

#### Use of Nanotechnology

*It is applied in a coating of thickness 2.88~3.79 micro meters (average 3.32 micro meters)*

“Preferred Substrates: Most solid materials which can stand temperature at least 150 degrees C, such as metal, glass, ceramic, plastic, leather, fiber, stone, rubber, paper, etc.”


#### Recommended Uses

“Typical Applications: Tableware, kitchenware, personal care products, watch accessories, door handles, pet care products, public facilities, etc.”


#### Antimicrobial Claims

"On the completion of four years R&D program, NCT is pleased to introduce a revolutionary nano-silver based patented technology to be applied on the surface of products, providing antibacterial substance and hardness enhancement.”


#### Product Testing Information

Included in the Fact sheet are a list of "Line Tested Properties" (Adhesion, Pencil Hardness, Acid resistance, Taber abrasion, resistant to corrosion, Dishwasher safe); "Vickers Hardness Test Results" (Scissors -- Gold, Scissors -- Black); Antimicrobial Test Results (1,2,3); "Antimold Rate"; Antimicrobial Test after Taber Abrasion"; and "FDA Test for Extractable Lead”


### Company web site: www.nanocaretech.com  
### Product web site: http://www.nanocaretech.com/enyeNewsInfo.asp?id=43  
### Company country: China

Sources: All data are derived from internet searches. Source URLs are given where appropriate
Nanosil Hairna Essence
Nano Plasma Center Co., Ltd.

Category: Health and Fitness
Subcategory: Personal Care
Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating &amp; Spray</td>
<td>-</td>
<td>Nano</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Conc. of Nano Ag | Rate of Ag+ Release | Expected Lifetime |
-               | -                 | -              |

Notes

Use of Nanotechnology
Nanosilver colloid that is sprayed onto the scalp.

Recommended Uses
"Hairna cleans the cuticle and the scalp, by having Nano minute substance to eradicate germs in the scalp. In addition, Nano silver particles transmit collagen layer germanium which is cell activation substance, to stimulate hair root and inactive cell, so that Hairna is effective for preventing hair loss as well as nourishing and increasing the hair."

How to use
Please shake Hairna and spray the scalp and the entire hair, every morning and evening (after washing and drying the hair). Give a slight massage, using finger or brush for scalp, in order for the product to be easily absorbed."


Antimicrobial Claims
"Hairna cleans the cuticle and the scalp, by having Nano minute substance to eradicate germs in the scalp."


Product Testing Information

Company web site: www.nanoplasmacenter.com
Nanosil Toothpaste  
Nano Plasma Center Co., Ltd.

**Category:** Health and Fitness  
**Subcategory:** Personal Care  
**Number of associated products:** 1  
**This product uses:** N/A

### Product Info

**Type/Form**  
Liquid  
**Particle Size**  
-  
**Conc. of Nano Ag**  
-  
**Rate of Ag+ Release**  
-  
**Classification**  
Nano  
**Expected Lifetime**  
-  
**Is the use disperseve?**  
Yes

### Notes

**Structure of Particle and/or Substrate**  
Product information includes list of active and inactive ingredients: "Activation :Silicondioxide, SMFP (Sodiummonofluorophosphate) Aminocaproic acid. Inactivation : Xylitol, Sodium pyrophosphate, Ag, Eucalyptus oil, PEG1500, Sorbitol, Hydrated silica, Cellulose gum, Flavor, SLS etc."


**Synthesis Method**

**Use of Nanotechnology**  
Nano silver mixed with toothpaste, ingredients:  
"Activation :Silicondioxide, SMFP (Sodiummonofluorophosphate) Aminocaproic acid  
Inactivation : Xylitol, Sodium pyrophosphate, Ag, Eucalyptus oil, PEG1500, Sorbitol, Hydrated silica, Cellulose gum, Flavor, SLS etc."


**Recommended Uses**  
Toothpaste.

**Antimicrobial Claims**  
"Nanosil substances  
1)Bio catalyst Nano silver  
2) Sterilization and antimicrobial actions  
3) Affinity for body cell"


**Product Testing Information**  
"Consumer Product Testing Co., Inc. " results of acute oral toxicity Test are on a certificate in the company folder in the database.

**Company web site:**  www.nanoplasmacenter.com  
**Product web site:**  http://www.nanoplasmacenter.com/product/product_e

**Company country:**  South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
# Silver Nano Powder

**Nano Plasma Center Co., Ltd.**

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder</td>
<td>0.3-20 nm</td>
<td>Nano</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Structure of Particle and/or Substrate

- Average Particle Size: 4 nm
- Nano silver purity: 99.9 +%
- Spherical shape

### Synthesis Method

- "Average particle size determined by HR-TEM."

### Use of Nanotechnology


### Recommended Uses

- Antimicrobial Claims

### Product Testing Information

Product testing done by Nano Plasma Center.

<table>
<thead>
<tr>
<th>Company web site:</th>
<th><a href="http://www.nanoplasmacenter.com">www.nanoplasmacenter.com</a></th>
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</thead>
<tbody>
<tr>
<td>Product web site:</td>
<td><a href="http://www.nanoplasmacenter.com">http://www.nanoplasmacenter.com</a></td>
</tr>
</tbody>
</table>

### Sources

All data are derived from internet searches. Source URLs are given where appropriate.
## Nanocid Colloid

**Nanocid™**

### Category:
Cross-cutting

### Subcategory:
Colloid

### Number of associated products:
3

### This product uses:
N/A

## Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>-</td>
<td>Nano</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-2000 ppm</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

## Notes

**Structure of Particle and/or Substrate**

Containing 100 ppm (L100); 200 ppm (L200); & 2000 ppm (L2000) nano silver particles.


**Synthesis Method**

- **Use of Nanotechnology**

  A series of colloids containing different concentrations of nano silver.

**Recommended Uses**

“The L series productions are water based antibacterial and antifungal agents so they can easily get sprayed or mixed with water based paints and glues. Usage Method:

Mixing ratio: 1-10 times by volume ”


**Antimicrobial Claims**

“The L series productions are water based antibacterial and antifungal agents so they can easily get sprayed or mixed with water based paints and glues.

Features:
1. Excellent Antibacterial & Antifungal effect
2. Antibacterial durability even after several times washing
3. Not to build up tolerance to the bacteria or fungi
4. Effective even at low concentration ”


**Product Testing Information**

<table>
<thead>
<tr>
<th>Company web site:</th>
<th>Company country:</th>
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</thead>
<tbody>
<tr>
<td><a href="http://www.nanocid.com">www.nanocid.com</a></td>
<td>Iran</td>
</tr>
</tbody>
</table>

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Nanocid Masterbatch

**Category:** Cross-cutting  
**Subcategory:** Master Batch  
**Number of associated products:** 7  
**This product uses:** N/A

### Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>-</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>300-500 ppm</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

### Notes

**Structure of Particle and/or Substrate**

Different forms of polymers, M/B conc. 5000-10000ppm and loading ratio of masterbatch base resin: PP, PE (5-10%), PS, ABS (5%<), PC, Nylon (3~5%), PET (3%<). "The type of resin and silver concentration can be adjusted upon request from the customers."


**Synthesis Method**

"Different kinds of master batch for using in different types of polymer are produced in this company, using master batch in addition of some side advantages, improve the dispersion of nano materials in all types of polymer by injection system."


**Recommended Uses**

As different types of polymers: PP, PE, PS, ABS, PC, Nylon and PET. Textiles.

**Antimicrobial Claims**


**Product Testing Information**

<table>
<thead>
<tr>
<th>Company web site:</th>
<th><a href="http://www.nanocid.com">www.nanocid.com</a></th>
</tr>
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<tbody>
<tr>
<td>Product web site:</td>
<td><a href="http://www.nanocid.com">www.nanocid.com</a></td>
</tr>
</tbody>
</table>

**Company country:** Iran

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
Nanocid Powder

Category: Cross-cutting
Subcategory: Powder

Number of associated products: 3
This product uses: N/A

Product Info

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<tr>
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<td>-</td>
<td>Nano</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
<td>-</td>
</tr>
<tr>
<td>1-15% Wt</td>
<td>-</td>
<td>-</td>
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Notes

Structure of Particle and/or Substrate
"TiO₂ as the carrier (sic) core coated with: 1% (P101); 5% (P105) or 10% (P110) Wt of Nano-Silver particles."

Synthesis Method
"Can be added and mixed to many types of material including Polymers, Textiles, Yarn, Paint & etc..."

Recommended Uses
"The P series production can be used as an additive in industrial purposes and due to its excellent mixable property it can be applied to an extended industrial field including Polymers, Paints, Glues, Ceramics Yarns and etc.... Usage Method: Mixing ratio 0.2%-5% Wt."

Antimicrobial Claims
"The products which P series are added in obtain antibacterial property; hence they can play a great role in both everyday life and specialized fields.... Features
1. Excellent Antibacterial Effect (99% Over) and sterilization, Antifungal effect
2. Antibacterial Durability
3. Not to Build up tolerance to the bacteria"

Product Testing Information

Company web site: www.nanocid.com
Product web site: http://www.nanocid.com/
Company country: Iran

Sources: All data are derived from internet searches. Source URLs are given where appropriate
NANOVER™
Nanogist Co., Ltd.

Category: Cross-cutting
Subcategory: Colloid
Number of associated products: 3
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
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<td>Colloid</td>
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<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>6 mo. - 5 yrs</td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
"NANOVER™ is nano silver-based antimicrobial colloid."
"NANOVER™ is not Ag ion, but metallic nanoparticles"
"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."

Synthesis Method

Use of Nanotechnology
"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."
"Antibiotic & Sterilizing effect as metal: differently from other metal or general silver, since NANOVER™ is nano-sized which is shorter than 1nm"
" size of NANOVER™ particle is 2nm-10nm"
"NANOVER™ is nano silver-based antimicrobial colloid."

Recommended Uses
Skin care, Industrial, House, Medicine, Sterilizer, Plastic, Construction, Antibiotic Fabric

(see saved webpage in applications in the company folder on the database, for specific products)

Antimicrobial Claims
"Nano-Silver-Titanium-Dioxide not only can kill 99.9% bacteria, fungi & virus, but also give a very long time (6 months to 5 years) disinfections effect."
"NANOVER™ shows antibacterial and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product."
"Generally, when killing microorganism needs a few minutes to several hours, however NANOVER™ eliminated 99.9% of MRSA within 1 minute at 10ppm concentration. Specially, it killed 99.8% of MRSA within 10 seconds."

Product Testing Information
"In the result of NANOVERTM test for 400 days, it shows stable distribution chart in colloid state.... Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer.... NANOVERTM shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product.... Research and development institute of NANOVERTM consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyoungpuk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."

Company web site: www.nanogist.com

Sources: All data are derived from internet searches. Source URLs are given where appropriate
**NANOVER™ AG-Garglin**

**Nanogist Co., Ltd.**

**Category:** Health and Fitness  
**Subcategory:** Personal Care  
**Number of associated products:** 1  
**This product uses:** NANOVER™

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseable?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>5 nm</td>
<td>Nano</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Conc. of Nano Ag**

<table>
<thead>
<tr>
<th>Rate of Ag⁺ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>6 mo. - 5 yrs</td>
</tr>
</tbody>
</table>

### Notes

**Structure of Particle and/or Substrate**

"Nano-Silver-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"

"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."

"NANOVER™ is nano silver-based antimicrobial colloid."


**Synthesis Method**

"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."

"Antibiotic & Sterilizing effect as metal: differently from other metal or general silver, since NANOVER™ is nano-sized which is shorter than 1nm"

"size of NANOVER™ particle is 2nm~10nm"


**Recommended Uses**

Mouth cleanser.

**Antimicrobial Claims**

"Nano-Silver-Titanium-Dioxide not only can kill 99.9% bacteria, fungi & virus, but also give a very long time (6 months to 5 years) disinfections effect."


"NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product."


"Generally, when killing microorganism needs a few minutes to several hours, however NANOVER™ eliminated 99.9% of MRSA within 1 minute at 10ppm concentration. Specially, it killed 99.8% of MRSA within 10 seconds."


**Product Testing Information**

"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state. Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer. NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product. Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyungpuk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."


**Company web site:** www.nanogist.com  
**Product web site:** http://www.nanogist.com/English/products/tooth.htm  
**Company country:** South Korea

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
NANOVER™ AG-Mouth Deodorant
Nanogist Co., Ltd.

Category: Health and Fitness
Subcategory: Personal Care
Number of associated products: 1
This product uses: NANOVER™

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>5 nm</td>
<td>Nano</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Conc. of Nano Ag Rate of Ag+ Release Expected Lifetime
- - 6 mo. - 5 yrs

Structure of Particle and/or Substrate
"Nano-Silver-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"
"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."
"NANOVER™ is nano silver-based antimicrobial colloid."

Synthesis Method

Use of Nanotechnology
"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."
"Antibiotic & Sterilizing effect as metal: differently from other metal or general silver, since NANOVER™ is nano-sized which is shorter than 1nm"
"size of NANOVER™ particle is 2nm~10nm"

Recommended Uses
Mouth deodorant spray.

Antimicrobial Claims
"Nano-Silver-Titanium-Dioxide not only can kill 99.9% bacteria, fungi & virus, but also give a very long time (6 months to 5 years) disinfections effect."
"NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product."
"Generally, when killing microorganism needs a few minutes to several hours, however NANOVER™ eliminated 99.9% of MRSA within 1 minute at 10ppm concentration. Specially, it killed 99.8% of MRSA within 10 seconds."

Product Testing Information
"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state.... Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer.... NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product.... Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyoungpuk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."

Company web site: www.nanogist.com
Product web site: http://www.nanogist.com/English/products/tooth.htm
Company country: South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
## NANOVER™ AG-Toothbrush

Nanogist Co., Ltd.

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
<th>Number of associated products:</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Personal Care</td>
<td>This product uses:</td>
<td>NANOVER™</td>
</tr>
</tbody>
</table>

### Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>5 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>6 mo. - 5 yrs</td>
</tr>
</tbody>
</table>

### Structure of Particle and/or Substrate

"Nano-Silver-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"
"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."
"NANOVER™ is nano silver-based antimicrobial colloid."

### Synthesis Method

"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."
"Antibiotic & Sterilizing effect as metal: differently from other metal or general silver, since NANOVER™ is nano-sized which is shorter than 1nm”
"size of NANOVER™ particle is 2nm–10nm”

### Recommended Uses

Toothbrush.

### Antimicrobial Claims

"Nano-Silver-Titanium-Dioxide not only can kill 99.9% bacteria, fungi & virus, but also give a very long time (6 months to 5 years) disinfections effect.”
"NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product."
"Generally, when killing microorganism needs a few minutes to several hours, however NANOVER™ eliminated 99.9% of MRSA within 1 minute at 10ppm concentration. Specially, it killed 99.8% of MRSA within 10 seconds.”

### Product Testing Information

"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state.... Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer.... NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product.... Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyungpuk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies.”

### Notes

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
NANOVER™ Body Cleanser
Nanogist Co., Ltd.

Category: Health and Fitness  
Subcategory: Personal Care  
Number of associated products: 1
This product uses: NANOVER™

Product Info

Type/ Form  
Liquid

Particle Size  
5 nm

Conc. of Nano Ag
-

Rate of Ag+ Release
-

Classification  
Nano

Expected Lifetime  
6 mo. - 5 yrs

Is the use dispersive?  
Yes

Structure of Particle and/or Substrate
"Nano-Silver-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"
"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."  "Nanover™ is nano silver-based antimicrobial colloid."

Synthesis Method
- 

Use of Nanotechnology
"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."
"Antibiotic & Sterilizing effec as metal:differently from other metal or general silver, since NANOVERTM is nano-sized which is shorter than 1nm"  " size of NANOVER™ particle is 2nm~10nm"

Recommended Uses
Skin cleanser that:
** Rich foam removes impurities and horny substance from the skin, while hydrating and conditioning the skin
* Leaves skin which is easy to become dry moist, smooth, and soft
* Protects skin from harmful environment, keeps healthy [and]
* No irritation, excellent cleansing effect using antibiotic, sterilizing Effect of Nanosilver."

Antimicrobial Claims
"No irritation, excellent cleansing effect using antibiotic, sterilizing Effect of Nanosilver"
"Nano-Silver-Titanium-Dioxide not only can kill 99.9% bacteria, fungi & virus, but also give a very long time (6 months to 3 years) disinfections effect."
"NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product."
"Generally, when killing microorganism needs a few minutes to several hours, however NANOVER™ eliminated 99.9% of MRSA within 1 minute at 10ppm concentration. Specially, it killed 99.8% of MRSA within 10 seconds."

Product Testing Information
"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state... Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer... NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product... Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyongguk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."

Company web site: www.nanogist.com  
Product web site: http://www.asianproducts.com/product 2/Nanover

Company country: South Korea

Notes
Company web site: Company country:
Product web site: 

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**NANOVER™ Cleansing Soap**

**Nanogist Co., Ltd.**

**Category:** Health and Fitness  
**Subcategory:** Personal Care  
**Number of associated products:** 1  
**This product uses:** NANOVER™

### Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Concentration of Nano Ag</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>5 nm</td>
<td>-</td>
<td>Nano</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Particle Size:** 5 nm  
**Rate of Ag+ Release:** -  
**Expected Lifetime:** 6 mo. - 5 yrs

### Notes

**Structure of Particle and/or Substrate**

"Pure silver of purity 99.9%, Aloe, Vitamin E, Squalene, Herb Extract, 16 kinds of Herb medicine"  
"Nano-Silver-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"  
"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass. " "Nanover™ is nano silver-based antimicrobial colloid.)"


**Use of Nanotechnology**

"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."

"Antibiotic & Sterilizing effic as metal: differently from other metal or general silver, since NANOVER™ is nano-sized which is shorter than 1nm" "size of NANOVER™ particle is 2nm~10nm"


**Recommended Uses**

"NANOVER™ Cleansing Soap excludes acne and sebum, and also reduces pores, makes your skin clear. At the same time, through the elimination of skin remnants and waste matter, you can maintain your skin clear, light, and clean. It shows excellent effects such as an activation of skin cells, an increase of shine and immunity by improvements in skin trouble. It also relieves and restrains deposition of melanin, allergy, diaper eruption, for that it has an effect on discoloration and freckles on the face.

NANOVER™ cleansing soap is good for the people who have atopic skin and women with deep cleansing effect. Differently from general cosmetics, it is non-antiseptic, and never deposited with long time keeping"


**Antimicrobial Claims**

"Nano-Silver-Titanium-Dioxide not only can kill 99.9% bacteria, fungi & virus, but also give a very long time (6 months to 5 years) disinfections effect."


"NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product."


"Generally, when killing microorganism needs a few minutes to several hours, however NANOVER™ eliminated 99.9% of MRSA within 1 minute at 10ppm concentration. Specially, it killed 99.8% of MRSA within 10 seconds."


**Product Testing Information**

"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state.... Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer.... NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product.... Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyungpuk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."


---

**Company web site:** www.nanogist.com  
**Product web site:** http://www.nanogist.com/English/products/soap.htm  
**Company country:** South Korea

---

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
NANOVER™ Detergents
Nanogist Co., Ltd.

Category: Home and Garden
Subcategory: Cleaning
Number of associated products: 4
This product uses: NANOVER™

Product Info

Type/ Form | Particle Size | Classification | Is the use disperseve?
---|---|---|---
Liquid | 5 nm | Nano | Yes

Conc. of Nano Ag | Rate of Ag+ Release | Expected Lifetime
---|---|---
- | - | 6 mo. - 5 yrs

Notes

Structure of Particle and/or Substrate
"Nano-Silver-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"
"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."
"NANOVER™ is nano silver-based antimicrobial colloid."

Synthesis Method

Use of Nanotechnology
"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."
"Antibiotic & Sterilizing effec as metal:
differently from other metal or general silver, since NANOVER™ is nano-sized which is shorter than 1nm" 
"size of NANOVER™ particle is 2nm~10nm"

Recommended Uses
To be used as a dishwashing detergent, liquid laundry detergent, fabric softener, and multipurpose cleaning agent.

Antimicrobial Claims
"Nano-Silver-Titanium-Dioxide not only can kill 99.9% bacteria, fungi & virus, but also give a very long time (6 months to 5 years) disinfections effect."
"NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product."
"Generally, when killing microorganism needs a few minutes to several hours, however NANOVER™ eliminated 99.9% of MRSA within 1 minute at 10ppm concentration. Specially, it killed 99.8% of MRSA within 10 seconds."

Product Testing Information
"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state.... Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer.... NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product....
Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyoungguk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."

Company web site: www.nanogist.com
Product web site: http://www.asianproducts.com/showproducts.php?
Company country: South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate
**NANOVER™ Disinfectant Spray**

Nanogist Co., Ltd.

**Category:** Home and Garden  
**Subcategory:** Cleaning  
**Number of associated products:** 1  
**This product uses:** **NANOVER™**

### Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>5 nm</td>
<td>Nano</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Structure of Particle and/or Substrate

"Nano-Silver-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"

"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."

"NANOVER™ is nano silver-based antimicrobial colloid."


### Synthesis Method

- **Use of Nanotechnology**

"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."

"Antibiotic & Sterilizing effec as metal: differently from other metal or general silver, since NANOVER™ is nano-sized which is shorter than 1nm"  
"size of NANOVER™ particle is 2nm~10nm"


### Recommended Uses

"Outstanding effect due to various virus such as mold"

- Perfectly removes odor through isolation of habitats of various virus such as mold
- Far superior deodorization effect than general deodorizer due to colorlessness, odorless
- Longer deodorization effect than general deodorizer"


### Antimicrobial Claims

"Outstanding effect due to various virus such as mold"

- Perfectly removes odor through isolation of habitats of various virus such as mold"


"Nano-Silver-Titanium-Dioxide not only can kill 99.9% bacteria, fungi & virus, but also give a very long time (6 months to 5 years) disinfections effect."


"NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product."


"Generally, when killing microorganism needs a few minutes to several hours, however NANOVER™ eliminated 99.9% of MRSA within 1 minute at 10ppm concentration. Specially, it killed 99.8% of MRSA within 10 seconds."


### Product Testing Information

"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state... Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer... NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product... Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyoungguk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."


### Company web site

[www.nanogist.com](http://www.nanogist.com)

### Company country

South Korea

### Notes

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
NANOVER™ Hair Gel
Nanogist Co., Ltd.

Category: Health and Fitness
Subcategory: Personal Care
Number of associated products: 1
This product uses: NANOVER™

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>5 nm</td>
<td>Nano</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
<td>6 mo. - 5 yrs</td>
</tr>
</tbody>
</table>

Structure of Particle and/or Substrate
"Nano-Silver-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"
"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."
"NANOVER™ is nano silver-based antimicrobial colloid."

Synthesis Method
"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."
"Antibiotic & Sterilizing effic as metal: differently from other metal or general silver, since NANOVERTM is nano-sized which is shorter than 1nm" "size of NANOVER™ particle is 2nm~10nm"

Recommended Uses
Hair styling gel.

Antimicrobial Claims
"Nano-Silver-Titanium-Dioxide not only can kill 99.9% bacteria, fungi & virus, but also give a very long time (6 months to 5 years) disinfections effect."
"NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product."
"Generally, when killing microorganism needs a few minutes to several hours, however NANOVER™ eliminated 99.9% of MRSA within 1 minute at 10ppm concentration. Specially, it killed 99.8% of MRSA within 10 seconds."

Product Testing Information
"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state.... Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer.... NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product.... Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyungpuk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
NANOVER™ Hair Mousse
Nanogist Co., Ltd.

Category: Health and Fitness
Subcategory: Personal Care
Number of associated products: 1
This product uses: NANOVER™

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>5 nm</td>
<td>Nano</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
<td></td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>6 mo. - 5 yrs</td>
<td></td>
</tr>
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</table>

Notes

Structure of Particle and/or Substrate
"Nano-Silver-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"
"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."
"Nanover™ is nano silver-based antimicrobial colloid."

Synthesis Method

Use of Nanotechnology
"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."
"Antibiotic & Sterilizing effic as metal: differently from other metal or general silver, since NANOVERTM is nano-sized which is shorter than 1nm" "size of NANOVER™ particle is 2nm~10nm"

Recommended Uses
Hair styling mousse.

Antimicrobial Claims
"Nano-Silver-Titanium-Dioxide not only can kill 99.9% bacteria, fungi & virus, but also give a very long time (6 months to 5 years) disinfections effect."
"NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product."
"Generally, when killing microorganism needs a few minutes to several hours, however NANOVER™ eliminated 99.9% of MRSA within 1 minute at 10ppm concentration. Specially, it killed 99.8% of MRSA within 10 seconds."

Product Testing Information
"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state.... Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer.... NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product.... Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyoungguk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."

Company web site: www.nanogist.com
NANOVER™ Hair Spray
Nanogist Co., Ltd.

Category: Health and Fitness
Subcategory: Personal Care
Number of associated products: 1
This product uses: NANOVER™

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating &amp; Spray</td>
<td>5 nm</td>
<td>Nano</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Conc. of Nano Ag | Rate of Ag+ Release | Expected Lifetime |
-               | -              | 6 mo. - 5 yrs   |

Notes

Structure of Particle and/or Substrate
"Nano-Silver-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"
"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."
"NANOVER™ is nano silver-based antimicrobial colloid."

Synthesis Method

Use of Nanotechnology
"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."
"Antibiotic & Sterilizing effec as metal: differently from other metal or general silver, since NANOVER™ is nano-sized which is shorter than 1nm" "size of NANOVER™ particle is 2nm~10nm"

Recommended Uses
Hair spray.

Antimicrobial Claims
"Nano-Silver-Titanium-Dioxide not only can kill 99.9% bacteria, fungi & virus, but also give a very long time (6 months to 5 years) disinfections effect."
"NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product."
"Generally, when killing microorganism needs a few minutes to several hours, however NANOVER™ eliminated 99.9% of MRSA within 1 minute at 10ppm concentration. Specially, it killed 99.8% of MRSA within 10 seconds."

Product Testing Information
"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state.... Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer.... NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product.... Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyonguk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."

Company web site: www.nanogist.com

Company country: South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate
NANOVER™ Hair Wax  
Nanogist Co., Ltd.

**Product Info**

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Nano</td>
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</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
<td>6 mo. - 5 yrs</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
</tbody>
</table>

**Structure of Particle and/or Substrate**

"Nano-Silver-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"

"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."

"NANOVER™ is nano silver-based antimicrobial colloid."


**Synthesis Method**

"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."

"Antibiotic & Sterilizing effect as metal: differently from other metal or general silver, since NANOVER™ is nano-sized which is shorter than 1nm"

"size of NANOVER™ particle is 2nm–10nm"


**Recommended Uses**

Hair styling wax.

**Antimicrobial Claims**

"Nano-Silver-Titanium-Dioxide not only can kill 99.9% bacteria, fungi & virus, but also give a very long time (6 months to 5 years) disinfections effect."


"NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product."


"Generally, when killing microorganism needs a few minutes to several hours, however NANOVER™ eliminated 99.9% of MRSA within 1 minute at 10ppm concentration. Specially, it killed 99.8% of MRSA within 10 seconds."


**Product Testing Information**

"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state.... Silver particle and Silver ion coexist in Nano condition, it doesn`t mass without coating silver particle, and stable in Polymer..... NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product.... Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyounguk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."


**Company web site**: www.nanogist.com  
**Product web site**: http://www.nanogist.com/English/products/shampoo.  
**Company country**: South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
NANOVER™ Hand Sanitizer
Nanogist Co., Ltd.

Category: Health and Fitness
Subcategory: Personal Care
Number of associated products: 3
This product uses: NANOVER™

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>5 nm</td>
<td>Nano</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Conc. of Nano Ag Rate of Ag+ Release Expected Lifetime
- - 6 mo. - 5 yrs

Notes

Structure of Particle and/or Substrate
"Nano-Silver-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"
"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."
"NANOVER™ is nano silver-based antimicrobial colloid."

Synthesis Method
- 

Use of Nanotechnology
"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."
"Antibiotic & Sterilizing effec as metal: differently from other metal or general silver, since NANOVER™ is nano-sized which is shorter than 1nm"
"size of NANOVER™ particle is 2nm~10nm"

Recommended Uses
Hand sanitizer.

Antimicrobial Claims
"Nano-Silver-Titanium-Dioxide not only can kill 99.9% bacteria, fungi & virus, but also give a very long time (6 months to 5 years) disinfections effect."

"NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product."

"Generally, when killing microorganism needs a few minutes to several hours, however NANOVER™ eliminated 99.9% of MRSA within 1 minute at 10ppm concentration. Specially, it killed 99.8% of MRSA within 10 seconds."

Product Testing Information
"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state.... Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer.... NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product.... Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyounguk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."

Company web site: www.nanogist.com
Company country: South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**NANOVER™ Make Up**  
Nanogist Co., Ltd.

**Category:**  Health and Fitness  
**Subcategory:**  Cosmetics  
**Number of associated products:**  6  
**This product uses:**  NANOVER™

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>5 nm</td>
<td>Nano</td>
<td>Yes</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>6 mo. - 5 yrs</td>
</tr>
</tbody>
</table>

### Notes

**Structure of Particle and/or Substrate**

"NANOVER is an antimicrobial colloid composed of silver nanoparticles stabilized by a polymer and exhibits excellent antimicrobial efficacy to a wide spectrum of microorganisms."

"Nano-Silver-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"

"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."

"NANOVER™ is nano silver-based antimicrobial colloid."

**Synthesis Method**

"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."

"Antibiotic & Sterilizing effec as metal: differently from other metal or general silver, since NANOVER™ is nano-sized which is shorter than 1nm"  
"size of NANOVER™ particle is 2nm~10nm"


**Recommended Uses**

Make up: foundation, lip gloss, face powder.

**Antimicrobial Claims**

"NANOVER™ is an antimicrobial colloid composed of silver nanoparticles stabilized by a polymer and exhibits excellent antimicrobial efficacy to a wide spectrum of microorganisms. Micro-organisms, also known as microbes or germs, include bacteria, fungi and algae, and are found everywhere on earth. In some situations microbes can cause a variety of problems, such as leading to foul odors, discoloration and formation of bio-film, degrading and corroding of the material, even food poisoning."


**Product Testing Information**

"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state... Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer.... NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product... Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyoungpuk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."


**Company web site:**  www.nanogist.com  
**Product web site:**  http://www.asianproducts.com/showproducts.php?

**Company country:**  South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate
NANOVER™ Mask Pack
Nanogist Co., Ltd.

**Category:** Health and Fitness  
**Subcategory:** Cosmetics  
**Number of associated products:** 1  
**This product uses:** NANOVER™

**Product Info**

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>5 nm</td>
<td>Nano</td>
<td>Yes</td>
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</tbody>
</table>

**Conc. of Nano Ag**  
30 ppm  
**Rate of Ag+ Release**  
-  
**Expected Lifetime**  
6 mo. - 5 yrs

**Structure of Particle and/or Substrate**
"Nano-Silver-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"
"Nano Silver (30 ppm) : Silver particle (Ag) in nano size having the antibiotic efficacy of Silver itself preserved without any change of its property # Phyto Collagen : Supply of protein into the skin. # Aloe Vera Gel : Outstanding effects on making the skin whitening and activating. # Sodium Hyaluronate : Moisture preserved effect of Mask Pack and a close skin adherence. # Green Tea & Chamomile Extract : Making the skin nourished and relieved. # Fragrance : Very small amount of Natural Aroma."

"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."

**Synthesis Method**
"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."
"Antibiotic & Sterilizing effic as metal: differently from other metal or general silver, since NANOVERTM is nano-sized which is shorter than 1nm"  
"size of NANOVER™ particle is 2nm~10nm"  

**Recommended Uses**
It should be used for: "# Antibiosis # Pore reduction # Skin Trouble Free # Moisture reservation # Function of Whitening # Skin contaminant absorption # Strengthening skin immunity function # Joint use by men & women # Convenient to use."

**Antimicrobial Claims**
"A purity of 99.9% Nano silver particle dismantled as the colloidal state in pure non-compound distilled water is a catalyst that lowers the power of element controlling the metabolism of the single cell animals (bacteria, virus, fungi, etc.) and disinfects it. Also, it has a merit of acting fast and critically only on parasitic materials such as bacteria & other diseases. Therefore, almost diseases can not survive contacted with silver. The most important thing is that ?silver? cannot have a tolerance of a bacteria different from traditional antibiotic materials; therefore, we can use it with assurance"  

**Product Testing Information**
"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state.... Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer.... NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product.... Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyungpuk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."

**Company web site:** www.nanogist.com  
**Product web site:** http://www.nanogist.com/English/products/mask.htm

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate
NANOVER™ Shampoo & Conditioner
Nanogist Co., Ltd.

**Category:** Health and Fitness  **Number of associated products:** 1
**Subcategory:** Personal Care  **This product uses:** NANOVER™

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>5 nm</td>
<td>Nano</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>6 mo. - 5 yrs</td>
</tr>
</tbody>
</table>

### Structure of Particle and/or Substrate

"Nano-Silver-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"
"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."
"NANOVER™ is nano silver-based antimicrobial colloid."

### Synthesis Method

**Use of Nanotechnology**

"NANOVER™ Shampoo using nanosilver technology, ingredients go into hair quickly and deeply, has outstanding moisturizing and dandruff removing effect. It also protects scalp, and gives hair elasticity."

"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."

"Antibiotic & Sterilizing effect as metal: differently from other metal or general silver, since NANOVER™ is nano-sized which is shorter than 1nm"

"size of NANOVER™ particle is 2nm~10nm"

### Recommended Uses

Shampoo and conditioner.

### Antimicrobial Claims

"Nano-Silver-Titanium-Dioxide not only can kill 99.9% bacteria, fungi & virus, but also give a very long time (6 months to 5 years) disinfections effect."

"NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product."

"Generally, when killing microorganism needs a few minutes to several hours, however NANOVER™ eliminated 99.9% of MRSA within 1 minute at 10ppm concentration. Specially, it killed 99.8% of MRSA within 10 seconds."

### Product Testing Information

"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state.... Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer.... NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product.... Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyungpuk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."

### Notes

Company web site: www.nanogist.com

Company country: South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
NANOVER™ Toothpaste
Nanogist Co., Ltd.

**Category:** Health and Fitness  
**Subcategory:** Personal Care  
**Number of associated products:** 1  
**This product uses:** NANOVER™

### Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>5 nm</td>
<td>Nano</td>
<td>Yes</td>
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</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>6 mo. - 5 yrs</td>
</tr>
</tbody>
</table>

### Structure of Particle and/or Substrate

"Nanogist-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"

"Nanosilver, silicon dioxide, sodium monofluorophosphate, sodium fluoride, sodium chloride, tetrasodium pyrophosphate anhydrous, protein silver, xylitol, chitosan, propolis, etc."

"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."

"NANOVER™ is nano silver-based antimicrobial colloid."

### Synthesis Method

"NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."

"Antibiotic & Sterilizing effect as metal: differently from other metal or general silver, since NANOVER™ is nano-sized which is shorter than 1nm"

"size of NANOVER™ particle is 2nm~10nm"


### Use of Nanotechnology

"Prevent gums inflammation, periodontitis, periodontal disease as sterilizing and disinfecting the bacilli that is a major cause for all gums disease by pure silver powder of purity 99.99% included in the toothpaste, which is known as excellent nature antibiotics against each pathogenic organ such as virus, bacilli and colitis germs."


### Recommended Uses

"Prevent gums inflammation, periodontitis, periodontal disease as sterilizing and disinfecting the bacilli that is a major cause for all gums disease by pure silver powder of purity 99.99% included in the toothpaste, which is known as excellent nature antibiotics against each pathogenic organ such as virus, bacilli and colitis germs."


### Antimicrobial Claims

"Prevent gums inflammation, periodontitis, periodontal disease as sterilizing and disinfecting the bacilli that is a major cause for all gums disease by pure silver powder of purity 99.99% included in the toothpaste, which is known as excellent nature antibiotics against each pathogenic organ such as virus, bacilli and colitis germs."


### Product Testing Information

"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state. ... Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer. ... NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product. ... Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyongpuk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."


### Notes

**Company web site:** www.nanogist.com  
**Product web site:** http://www.nanogist.com/English/products/tooth.htm  
**Company country:** South Korea

*Sources: All data are derived from internet searches. Source URLs are given where appropriate.*
# NANOVER™ Wet Tissue

**Nanogist Co., Ltd.**

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Personal Care</td>
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</tbody>
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**Number of associated products:** 1  
**This product uses:** NANOVER™

## Product Info

<table>
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<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>5 nm</td>
<td>Nano</td>
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</tr>
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<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag⁺ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>6 mo. - 5 yrs</td>
</tr>
</tbody>
</table>

## Notes

### Structure of Particle and/or Substrate

"Nano-Silver-Titanium-Dioxide NANOVER™ is not Ag ion, but metallic nanoparticles"

"Since the size of Entire Nano particle including Nano Silver particle is average 5nm, has high bulk rate and surface area rate with same mass."

"NANOVER™ is nano silver-based antimicrobial colloid."


### Synthesis Method

- **Use of Nanotechnology**

  "NANOVER™ (final nanoparticles) consists of several smaller nanoparticles, called primary nanoparticles."

  "Antibiotic & Sterilizing effect as metal:differently from other metal or general silver, since NANOVER™ is nano-sized which is shorter than 1nm"

  "size of NANOVER™ particle is 2nm~10nm"


### Recommended Uses

Cleaning wipes.

### Antimicrobial Claims

"Nano-Silver-Titanium-Dioxide not only can kill 99.9% bacteria, fungi & virus, but also give a very long time (6 months to 5 years) disinfections effect."


"NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product."


"Generally, when killing microorganism needs a few minutes to several hours, however NANOVER™ eliminated 99.9% of MRSA within 1 minute at 10ppm concentration. Specially, it killed 99.8% of MRSA within 10 seconds."


### Product Testing Information

"In the result of NANOVER™ test for 400 days, it shows stable distribution chart in colloid state.... Silver particle and Silver ion coexist in Nano condition, it doesn’t mass without coating silver particle, and stable in Polymer.... NANOVER™ shows antibiotic and sterilizing effect in lower than 10ppm concentration, when producing application products, possible to produce transparent product.... Research and development institute of NANOVER™ consists of 9 professorates of POSTECH and 2 professorates of Medical school of Kyounpuk University, also is equipped with world grade experiment materials, and can produce variety of products in collaboration with research center of many companies."


**Company web site:** www.nanogist.com  
**Product web site:** http://www.nanogist.com/korea/products/tissue.htm  
**Company country:** South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate
**SmartSilver™**
*NanoHorizons Inc.*

**Product Info**

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
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<tr>
<td>Spun</td>
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<td>No</td>
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</table>

**Structure of Particle and/or Substrate**

"SmartSilver is available in Masterbatch, CottonPro, Staple Fiber and Polyurethane" ~10-15nm on average but on brochure says 19nm


**Synthesis Method**

Use of Nanotechnology

Nanoparticles "are also chemically and permanently bonded to the fibers that are being enhanced." ('Understanding SmartSilver Antimicrobial Fiber Technology' Document)


"SmartSilver is available in Masterbatch, CottonPro, Staple Fiber and Polyurethane"


**Recommended Uses**

In the fabrication of fabrics:

"SmartSilver’s nanotechnology gives your products improved functionality, fabric quality and the anti-odor benefits your customers want:
* Unmatched anti-odor performance
* Maintains hand, dye, wicking, stretch of your fabrics
* Cost-effective"


**Antimicrobial Claims**

"SmartSilver: The Smarter Anti-Odor and Antimicrobial Answer"


**Product Testing Information**

"NAMSA, an independent biomedical testing company, exposed two common microbes to fabric made with SmartSilver antimicrobial-enhanced fibers: corynbacterium diphtheriae (commonly called diphtheria and known as a foot-area bacterium) and staphylococcus aureus (commonly called staph and present throughout the body). These microbes were chosen because they are a common source of unpleasant odor in clothing. The NAMSA tests were performed on enhanced polyester and enhanced cotton, which offers everything that people have come to love about cotton, plus compelling antimicrobial properties. We know of no competition for our pure cotton offering, so we could not compare this directly to any other claims in the industry. The test results showed exceptional effectiveness against both staph and diphtheria - results at least as good as those produced by competitive offerings such as silver-coated nylon wire."


**Company web site:** www.nanohorizons.com

**Product web site:** http://www.nanohorizons.com/prodSmartSilver.shtml

**Company country:** USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Cosil Whitening mask
Natural Korea Co., Ltd.

Category: Health and Fitness
Subcategory: Cosmetics
Number of associated products: 1
This product uses: N/A

Product Info

<table>
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<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
Nano-colloidal silver.

Synthesis Method

Use of Nanotechnology
"As a mask made with 99.99% Nano-Colloidal Silver, it is a chemical free mask using the antibacterial function and whitening effect."

Recommended Uses
Cleansing face mask.

Antimicrobial Claims
"For the unicellular animals (bacteria, virus, fungi, etc.), Nano-silver acts as a catalyst by overpowering the digestive enzymes. As a result, it disinfects and controls the metabolism. Additionally, it has a merit of acting critically only on parasitic materials, such as bacteria and germs. Therefore, most germs cannot survive when contacted with Nano Silver ion."

Product Testing Information
On the products page they have links to "Reports" this includes: 
- Cosil Mask Pack proves to be a 99.9% disinfectant against Staphylococcus and Escherichia coli, tested by FITI Testing and Research Institute
- Nano-colloidal Silver (Ag) contained in Cosil Mask Pack is proven to be a safe (non-toxic) material by a result of toxicity test carried out by FDA certified laboratories (BCH Pharmaceutical and Cosmetic Analytical Laboratories).
- Nano-Colloidal Silver (Ag) contained in Cosil Mask Pack is clinically tested by both men and women and proven to be safe as shown in the test result issued by FITI Testing and Research Institute.

Company web site: www.naturalkorea.co.kr
Product web site: http://www.naturalkorea.co.kr/

Company country: South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
### Nano Cosil Beauty Soap

**Natural Korea Co., Ltd**

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Personal Care</td>
</tr>
</tbody>
</table>

**Number of associated products:** 1

**This product uses:** N/A

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>-</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**Structure of Particle and/or Substrate**

Nano-colloidal silver.

**Synthesis Method**

- 

**Use of Nanotechnology**

Nano colloid in a soap.

**Recommended Uses**

"Cosil Nano Beauty Soap thoroughly cleanses inside the pores to tone and even out skin for its radian appearance."


**Antimicrobial Claims**

"A newly innovated product from Silver Biotechnology, Nano Silver shows its competence as a disinfectant by eliminating bacteria and germs causing common skin troubles such as pimples and acne."


### Product Testing Information

- 

**Company web site:** [www.naturalkorea.co.kr](http://www.naturalkorea.co.kr)

**Product web site:** [www.naturalkorea.co.kr](http://www.naturalkorea.co.kr)

**Company country:** South Korea

---

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
Argentyn 23™
Natural-Immunogenics Corp.

Category: Food and Beverage
Subcategory: Supplements
Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>0.8 nm</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
<td>-</td>
</tr>
<tr>
<td>23 ppm</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
"96% active silver"

Synthesis Method
"A proprietary electrolysis process yielding over 96% active silver"
"Electrolytic Method" from PDF "Oligodynamic Ag+: The Active Ingredient in Sovereign Silver and Argentyn 23 From Natural-Immunogenics Corp.” (see company folder in the database)

Use of Nanotechnology
Colloidal silver in pure water.

Recommended Uses
Recommended uses include: "support for immune health,” "may promote WBC surveillance,” and “has been shown to modulate events which are immune offensives, such as promoting superoxide release, supporting healthy regulation of toxicants, and promoting healthy enzyme mediation from exogenous sources.”

Antimicrobial Claims
"Since ancient times silver has been highly regarded as a premier preservative and immune tool. In ancient Greece, Rome, Phoenicia and Macedonia, silver was used extensively to help control many immune challenges.”

Product Testing Information
"[H]as completed the Chromosomal Aberrations Screening (CHO Cells) Assay through Covance Laboratories, Inc. Results clearly demonstrated no toxicity. (Ref: Assay No. 24742-0-437 SC; Study No. 7417-101.)"
"[H]as completed the Ames Confirmatory Mutagenicity Assay through Covance Laboratories, Inc. Results clearly revealed no toxicity. (Ref: Assay No. 24742-0-409OECD; Trial No. C1.)"
"Product Cytotoxicity Tests: Argentyn 23™ underwent a murine Acute Oral Toxicity Study (LD50) with Covance Laboratories, Inc. (ref: 24742-0-800). The result revealed absolutely no harmful affects to mammalian tissue at a dosage of 20mL/kg. While murine tissue is not identical to human tissue, the test suggests that 1400cc ingested at one time by a 154 lb adult is not medically harmful.”

Company web site: www.natural-immunogenics.com

Company country: USA
Sources: All data are derived from internet searches. Source URLs are given where appropriate
Sovereign Silver™
Natural-Immunogenics Corp.

Category: Food and Beverage
Subcategory: Supplements
Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
<tr>
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<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>0.8 nm</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
<td>-</td>
</tr>
<tr>
<td>10 ppm</td>
<td>9.47 mg/l</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Structure of Particle and/or Substrate
There is a particle size of 0.8 nm, "ultra-pure silver" colloid in "ultra-pure water."
The speciation shows a "picoscalar, oligodynamic, silver ion (95.74% Ag+)" from Univ. of Miami Final Report (see company folder in the database)

Synthesis Method
"Electrolytic Method" from PDF "Oligodynamic Ag+: The Active Ingredient in Sovereign Silver and Argentyn 23 From Natural-Immunogenics Corp." (see company folder in the database)

Use of Nanotechnology
"Made with ultra-pure, medical-grade water (the only other ingredient)."
"Naturally bio-available (based on particle size and dispersion)."

Recommended Uses
It is recommended as a supplement to promote good health.
"The reason for this wide-spread application is because of nanotechnology’s influence upon silver’s well-established (A) biological catalytic activity which may excite higher life forms into maximal states of immune function when the silver is in an oligodynamic state, 1, 2, 3, 4 and (B) its physical characteristics which establishes that it possesses the greatest electrical and thermal conductivity of all metals while possessing the lowest contact resistance.5"

Antimicrobial Claims
"The use of silver as a respected preservative, disinfectant, regenerative agent and immune support mineral dates back thousands of years."

Product Testing Information
"Furthermore, we have submitted our own products and that of several competitive products to the Electron Microscopy lab at the University of Miami Medical School for qualified 3rd party evaluation."

Company website: www.natural-immunogenics.com
Product website: http://www.natural-immunogenics.com

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
## Category: Food and Beverage
### Subcategory: Supplements

<table>
<thead>
<tr>
<th>Type/Form</th>
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<th>Classification</th>
<th>Is the use dispersese?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td></td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

### Conc. of Nano Ag | Rate of Ag+ Release | Expected Lifetime
---|---|---
- | - | -

### Notes

#### Structure of Particle and/or Substrate
It contains purified silver 50 micrograms. The recommended serving is (serving size = 1 tsp. (5ml)) and it contains 48 servings per container.

#### Synthesis Method
"The patented electro-engineered process creates a silver particle that is far smaller than those in colloidal silver products."


#### Use of Nanotechnology
"Silvix 3 is the silver supplement that goes beyond colloidal silver. The patented electro-engineered process creates a silver particle that is far smaller than those in colloidal silver products."


#### Recommended Uses
"The Advanced Electro-Engineered Silver Dietary Supplement*"
"For daily immune defense, especially in the cold and flu season, use Silvix 3."


#### Antimicrobial Claims
"This purified silver solution has demonstrated significant anti-bacterial and anti-fungal effects as a surface disinfectant and in vitro.*"


### Product Testing Information
- Company web site: www.enaturalcare.com
- Product web site: http://www.enaturalcare.com/prod_silv.html
- Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**NTbase Nanosilver Colloidal**  
*NT Base Co., Ltd.*

**Category:** Cross-cutting  
**Subcategory:** Colloid

**Number of associated products:** 1  
**This product uses:** N/A

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>~25-100 nm</td>
<td>Colloid</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Notes

**Structure of Particle and/or Substrate**  
The particle size is estimated from a SEM image.

**Synthesis Method**  
-

**Use of Nanotechnology**  
Silver is in a colloid.

**Recommended Uses**  
-

**Antimicrobial Claims**  
-

**Product Testing Information**  
CSI (Purity Test);  
Korea Testing & Research Institute for Chemical Industry (Skin Irritation Test; Acute Systemic Toxicity; Sensitization)

<table>
<thead>
<tr>
<th>Company web site</th>
<th>Company country</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://www.ntbase.net">www.ntbase.net</a></td>
<td>South Korea</td>
</tr>
<tr>
<td><a href="http://eng.ntbase.net/eng/business/02_np_02.asp">http://eng.ntbase.net/eng/business/02_np_02.asp</a>?</td>
<td></td>
</tr>
</tbody>
</table>

*Sources: All data are derived from internet searches. Source URLs are given where appropriate*
NTbase Nanosilver Master Batch

**Category:** Cross-cutting  
**Subcategory:** Master Batch

**Type/ Form**  
Solid

**Particle Size**  
- 

**Conc. of Nano Ag**  
4000 ppm

**Rate of Ag+ Release**  
- 

**Classification**  
Nano

**Expected Lifetime**  
- 

**Is the use disperseve?**  
No

**Structure of Particle and/or Substrate**  
It is available in different models: MB-PP (Mixing Ratio (wt %) 5~10); MB-PET (5~10); MB-PETG (5~10); MB-HDPE (5~10); MB-LDPE (5~10); MB-PC (5~10); MB-NYLON (5~10).

**Synthesis Method**  
- 

**Use of Nanotechnology**  
Nano silver is contained within different polymers.

**Recommended Uses**  
- 

**Antimicrobial Claims**  
- 

**Product Testing Information**  

**Company web site:** www.ntbase.net  
**Product web site:** http://eng.ntbase.net/eng/business/03 pp.asp

**Company country:** South Korea

**Number of associated products:** 7  
**This product uses:** N/A

**Notes**

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
### NTbase Nanosilver Powder

**Category:** Cross-cutting  
**Subcategory:** Powder  
**Number of associated products:** 2  
**This product uses:** N/A

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder</td>
<td>25-250 nm</td>
<td>Nano</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.49 g/cm³</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Notes

- **Structure of Particle and/or Substrate**
  - List of properties: Purity 99.99%; Model NP-S150: Density 10.49 g/cm³, Specific surface area 4.032 m²/g, Average particle size - By volume: 150 nm ± 10%, - By area: 100 nm ± 10%, - By number: 60 nm ± 10%.
  - JR Nanotech uses this product and provided more specific detail on the particle size range. "Particle size of Nano-silver Ranging from 25nm to 250nm."

- **Synthesis Method**
  - Begin with the "Raw Material (granule)" to "Refine Process (purity control)" to "Metal Wire" to "Wire Electric Explosion" to "Nano powder separation" and finally a characteristic analysis.

- **Use of Nanotechnology**
  - Nanosilver powder is produced for multiple applications.

- **Recommended Uses**
  - A list of reasons to use this product:
    1. Low Price.
    2. High Purity: (more than 99.99%)
    3. Easy application due to its dispersible property for any uses.
    4. Controllable concentration level according to appropriate uses.
    5. In 100% Nanopowder condition.
    7. Prevents discoloration of the product even above 1,000 ppm concentration."  

- **Antimicrobial Claims**
  - "Nanosilver is environment friendly, and does not carry any harmful toxin that might be harmful to human body. Nanosilver has an antibacterial effect which can kill up to 650 different types of bacteria. Nanosilver has much stronger germicidal capability than those of chloric acid based germicides. Because Nanosilver is harmless to human body, it is widely used in everyday products such as electronics, antibacterial products, and deodorants. Nanosilver increases immunity in animals and plants, and it also increases resistance to viruses and bacteria." (retrieved 07.13.2007 from http://eng.ntbase.net/eng/data/02_na.asp)

### Product Testing Information

- **CSI (Purity Test):**
  - Korea Testing & Research Institute for Chemical Industry (Skin Irritation Test; Acute Systemic Toxicity; Sensitization)

### Sources

- All data are derived from internet searches. Source URLs are given where appropriate.
NTbase Nanosilver Textile Master Batch
NT Base Co., Ltd.

Category: Cross-cutting  Number of associated products: 2
Subcategory: Master Batch  This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td></td>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10,000 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
It is available in different models: MB-NYLON (Mixing Ratio(wt %) 10); MB-PET (10).

Synthesis Method
-

Use of Nanotechnology
Nano silver is contained within different polymers.

Recommended Uses
For use in Textiles.

Antimicrobial Claims
-

Product Testing Information
CSI (Purity Test);
Korea Testing & Research Institute for Chemical Industry (Skin Irritation Test; Acute Systemic Toxicity; Sensitization).

Company web site: www.ntbase.net
Product web site: http://eng.ntbase.net/eng/business/23 nylon.asp

Company country: South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
SILCRYST™
NUCRYST Pharmaceuticals Corp.

Category: Medical Applications
Subcategory: Coatings

Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating</td>
<td>1-100 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

Conc. of Nano Ag | Rate of Ag+ Release | Expected Lifetime
- | - | 7 days

Notes

Structure of Particle and/or Substrate
A silver nanocrystalline coating.

Synthesis Method
Through reactive magnetron sputtering (a type of physical vapor deposition).

Use of Nanotechnology
These silver atoms are then re-condensed to form new high-energy nanocrystalline structures on substrates - such as high-density polyethylene for non-adherent wound care dressings. NUCRYST has also developed proprietary methods to produce free-standing nanocrystalline powders.... Compared to bulk material silver, NUCRYST’s silver in nanocrystalline form is in a higher energy state and exhibits enhanced solubility.


Recommended Uses
Used in Acticoat™ antimicrobial barrier dressings for medical applications.

Antimicrobial Claims
"Bacterial reduction - Smith and Nephew’s Acticoat™ dressings with SILCRYST™ nanocrystals have demonstrated a broad antimicrobial spectrum and kill rate in in vitro studies, inhibiting a wide range of pathogens, including drug-resistant bacteria such as methicillin-resistant Staphylococcus aureus (MRSA) and vancomycin-resistant enterococcus (VRE)."


Product Testing Information
"Laboratory studies of NPI 32101 have demonstrated significant anti-inflammatory and antimicrobial properties that have the potential to treat a variety of disease conditions. NUCRYST is developing pharmaceutical products to extend its nanocrystalline silver technology to the treatment of disease conditions with an inflammatory and/or infectious component.

NUCRYST is conducting preclinical research on the use of NPI 32101 for the treatment of gastrointestinal conditions such as inflammatory bowel disease and is exploring other promising therapeutic areas."


Company web site: www.nucryst.com
Product web site: http://www.nucryst.com/silcryst_division.htm

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Cor Soap

Plank™

Category: Health and Fitness
Subcategory: Personal Care

Number of associated products: 1
This product uses: N/A

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>-</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Expected Lifetime: 6-9 months

Notes

Structure of Particle and/or Substrate
Ingredients: silver, silica, collagen, chitosan, and sericin.

Synthesis Method

Use of Nanotechnology
The colloidal silver is used in conjunction with silica, collagen, chitosan, and sericin to form a facial/body soap.

Recommended Uses
Facial soap.

Antimicrobial Claims
"The particles of Cor soap's active ingredients are dramatically reduced in size, reaching deep below the surface, killing bacteria, minimising wrinkles, moisturising and feeding vital nutrients to the skin.... Silver is fast emerging as one of the best antibacterial agents. It also has healing properties which speeds the growth and repair of cells."


Product Testing Information

Company web site: www.plankdesigns.com
Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**Boy Beater Tank**
*Pooghe Laundry LLC*

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 8  
**This product uses:** SmartSilver™

### Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spun</td>
<td>10-15 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>permanent</td>
</tr>
</tbody>
</table>

### Notes

**Structure of Particle and/or Substrate**
Cotton with nano silver additives

**Synthesis Method**
-

**Use of Nanotechnology**
The nanoparticles "are also chemically and permanently bonded to the fibers that are being enhanced."

**Recommended Uses**
"Our soft 2x1 Rib tank is made with SmartSilver™ Anti-Odor/ Antimicrobial Nanotechnology with pre-shrunk 100% 30 single combed ring spun cotton 6 ounce. "

**Antimicrobial Claims**
"Our soft 2x1 Rib tank is made with SmartSilver™ Anti-Odor/ Antimicrobial Nanotechnology with pre-shrunk 100% 30 single combed ring spun cotton 6 ounce. "

**Product Testing Information**
"NAMSA, an independent biomedical testing company, exposed two common microbes to fabric made with SmartSilver antimicrobial-enhanced fibers: corynbacterium diphteriae (commonly called diphtheria and known as a foot-area bacterium) and staphylococcus aureus (commonly called staph and present throughout the body). These microbes were chosen because they are a common source of unpleasant odor in clothing. The NAMSA tests were performed on enhanced polyester and enhanced cotton, which offers everything that people have come to love about cotton, plus compelling antimicrobial properties. We know of no competition for our pure cotton offering, so we could not compare this directly to any other claims in the industry. The test results showed exceptional effectiveness against both staph and diptheria - results at least as good as those produced by competitive offerings such as silver-coated nylon wire."

**Company web site:** www.pooghe.com  
**Company country:** USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**Cap Sleeve Crop 'T'**

*Pooghe Laundry LLC*

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Clothing</td>
</tr>
</tbody>
</table>

**Product Info**

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Spun</td>
<td>10-15 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>permanent</td>
</tr>
</tbody>
</table>

**Notes**

**Structure of Particle and/or Substrate**
Cotton with nano silver additives

**Synthesis Method**
- 

**Use of Nanotechnology**
The nanoparticles "are also chemically and permanently bonded to the fibers that are being enhanced."


**Recommended Uses**
"Our soft 1x1 baby rib crew neck shirt is made SmartSilver™ Anti-Odor/ Antimicrobial Nanotechnology with pre-shrunk 100% 30 single combed ring spun cotton 6.2 ounce."

**Antimicrobial Claims**
"Our soft 1x1 baby rib crew neck shirt is made SmartSilver™ Anti-Odor/ Antimicrobial Nanotechnology with pre-shrunk 100% 30 single combed ring spun cotton 6.2 ounce."

**Product Testing Information**
"NAMSA, an independent biomedical testing company, exposed two common microbes to fabric made with SmartSilver antimicrobial-enhanced fibers: corynbacterium diphteriae (commonly called diphtheria and known as a foot-area bacterium) and staphylococcus aureus (commonly called staph and present throughout the body). These microbes were chosen because they are a common source of unpleasant odor in clothing.
The NAMSA tests were performed on enhanced polyester and enhanced cotton, which offers everything that people have come to love about cotton, plus compelling antimicrobial properties. We know of no competition for our pure cotton offering, so we could not compare this directly to any other claims in the industry. The test results showed exceptional effectiveness against both staph and diphtheria - results at least as good as those produced by competitive offerings such as silver-coated nylon wire."

**Company web site:** www.pooghe.com                  **Company country:** USA

*Sources: All data are derived from internet searches. Source URLs are given where appropriate*
**Funshort**

*Pooghe Laundry LLC*

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 3  
**This product uses:** SmartSilver™

### Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spun</td>
<td>10-15 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

**Conc. of Nano Ag**  
**Rate of Ag+ Release**  
**Expected Lifetime** permanent

### Notes

**Structure of Particle and/or Substrate**
Cotton with nano silver additives

**Synthesis Method**

**Use of Nanotechnology**
The nanoparticles "are also chemically and permanently bonded to the fibers that are being enhanced."

**Recommended Uses**
"Our soft and very comfortable 1x1 baby rib short is made with SmartSilver™ Anti-Odor/Antimicrobial Nanotechnology with pre-shrunk 100% 30 single combed ring spun cotton 6 ounce."

**Antimicrobial Claims**
"Our soft and very comfortable 1x1 baby rib short is made with SmartSilver™ Anti-Odor/Antimicrobial Nanotechnology with pre-shrunk 100% 30 single combed ring spun cotton 6 ounce."

**Product Testing Information**
"NAMSA, an independent biomedical testing company, exposed two common microbes to fabric made with SmartSilver antimicrobial-enhanced fibers: corynbacterium diphteriae (commonly called diphtheria and known as a foot-area bacterium) and staphylococcus aureus (commonly called staph and present throughout the body). These microbes were chosen because they are a common source of unpleasant odor in clothing. The NAMSA tests were performed on enhanced polyester and enhanced cotton, which offers everything that people have come to love about cotton, plus compelling antimicrobial properties. We know of no competition for our pure cotton offering, so we could not compare this directly to any other claims in the industry. The test results showed exceptional effectiveness against both staph and diphtheria - results at least as good as those produced by competitive offerings such as silver-coated nylon wire."

### Company web site:
[www.pooghe.com](http://www.pooghe.com)

**Product web site:**  

**Company country:** USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**Retro Cap Sleeve**
Pooghe Laundry LLC

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 8  
**This product uses:** SmartSilver™

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spun</td>
<td>10-15 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

**Conc. of Nano Ag**  
**Rate of Ag+ Release**  
**Expected Lifetime**  
permanent

### Notes

**Structure of Particle and/or Substrate**
Cotton with nano silver additives

**Synthesis Method**
-

**Use of Nanotechnology**
The nanoparticles "are also chemically and permanently bonded to the fibers that are being enhanced."

**Recommended Uses**
"Our durably soft Retro Cap Sleeve shirt is made SmartSilver™ Anti-Odor/ Antimicrobial Nanotechnology with pre-shrunk 100% 30 single combed ring spun cotton 6.2 ounce."

**Antimicrobial Claims**
"Our durably soft Retro Cap Sleeve shirt is made SmartSilver™ Anti-Odor/ Antimicrobial Nanotechnology with pre-shrunk 100% 30 single combed ring spun cotton 6.2 ounce."

**Product Testing Information**
"NAMSA, an independent biomedical testing company, exposed two common microbes to fabric made with SmartSilver antimicrobial-enhanced fibers: corynbacterium diphteriae (commonly called diptheria and known as a foot-area bacterium) and staphylococcus aureus (commonly called staph and present throughout the body). These microbes were chosen because they are a common source of unpleasant odor in clothing. The NAMSA tests were performed on enhanced polyester and enhanced cotton, which offers everything that people have come to love about cotton, plus compelling antimicrobial properties. We know of no competition for our pure cotton offering, so we could not compare this directly to any other claims in the industry. The test results showed exceptional effectiveness against both staph and diptheria - results at least as good as those produced by competitive offerings such as silver-coated nylon wire."

**Company web site:** www.pooghe.com  
**Company country:** USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Socks- Black
Pooghe Laundry LLC

Category: Health and Fitness
Subcategory: Clothing

Number of associated products: 1
This product uses: SmartSilver™

Product Info

Type/ Form  Particle Size  Classification  Is the use disperseve?
Spun  10-15 nm  Nano  No

Conc. of Nano Ag  Rate of Ag+ Release  Expected Lifetime
-  -  permanent

Notes

Structure of Particle and/or Substrate
Cotton with nano silver additives

Synthesis Method

Use of Nanotechnology
The nanoparticles “are also chemically and permanently bonded to the fibers that are being enhanced.”

Recommended Uses
“Our soft 100% Ring Spun Premium Cotton Crew Sock made with SmartSilver™ Anti-Odor/ Antimicrobial Nanotechnology.”

Antimicrobial Claims
“Our soft 100% Ring Spun
Premium Cotton Crew Sock
made with SmartSilver™ Anti-Odor/
Antimicrobial Nanotechnology.”

Product Testing Information
“NAMSA, an independent biomedical testing company, exposed two common microbes to fabric made with SmartSilver antimicrobial-enhanced fibers: corynbacterium diphtheriae (commonly called diphtheria and known as a foot-area bacterium) and staphylococcus aureus (commonly called staph and present throughout the body). These microbes were chosen because they are a common source of unpleasant odor in clothing.
The NAMSA tests were performed on enhanced polyester and enhanced cotton, which offers everything that people have come to love about cotton, plus compelling antimicrobial properties. We know of no competition for our pure cotton offering, so we could not compare this directly to any other claims in the industry. The test results showed exceptional effectiveness against both staph and diphtheria - results at least as good as those produced by competitive offerings such as silver-coated nylon wire.”

Company web site: www.pooghe.com

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Spaghetti Top
Pooghe Laundry LLC

Category: Health and Fitness
Subcategory: Clothing
Number of associated products: 4
This product uses: SmartSilver™

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spun</td>
<td>10-15 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

Structure of Particle and/or Substrate
Cotton with nano silver additives

Synthesis Method
-

Use of Nanotechnology
The nanoparticles "are also chemically and permanently bonded to the fibers that are being enhanced."

Recommended Uses

Antimicrobial Claims

Product Testing Information
"NAMSA, an independent biomedical testing company, exposed two common microbes to fabric made with SmartSilver antimicrobial-enhanced fibers: corynbacterium diptheriae (commonly called diphtheria and known as a foot-area bacterium) and staphylococcus aureus (commonly called staph and present throughout the body). These microbes were chosen because they are a common source of unpleasant odor in clothing.
The NAMSA tests were performed on enhanced polyester and enhanced cotton, which offers everything that people have come to love about cotton, plus compelling antimicrobial properties. We know of no competition for our pure cotton offering, so we could not compare this directly to any other claims in the industry. The test results showed exceptional effectiveness against both staph and diphtheria - results at least as good as those produced by competitive offerings such as silver-coated nylon wire."

Company web site: www.pooghe.com

Notes
Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate
T-shirt
Pooghe Laundry LLC

Category: Health and Fitness
Subcategory: Clothing
This product uses: SmartSilver™
Number of associated products: 8

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spun</td>
<td>10-15 nm</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>permanent</td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
Cotton with nano silver additives

Synthesis Method
- 

Use of Nanotechnology
The nanoparticles "are also chemically and permanently bonded to the fibers that are being enhanced."


Recommended Uses
"Our soft 100% Cotton Jersey Knit Premium T-Shirt made with SmartSilver™ Anti-Odor/ Antimicrobial Nanotechnology."

Antimicrobial Claims
"Our soft 100% Cotton Jersey Knit Premium T-Shirt made with SmartSilver™ Anti-Odor/ Antimicrobial Nanotechnology."

Product Testing Information
"NAMSA, an independent biomedical testing company, exposed two common microbes to fabric made with SmartSilver antimicrobial-enhanced fibers: corynbacterium diphteriae (commonly called diphtheria and known as a foot-area bacterium) and staphylococcus aureus (commonly called staph and present throughout the body). These microbes were chosen because they are a common source of unpleasant odor in clothing.
The NAMSA tests were performed on enhanced polyester and enhanced cotton, which offers everything that people have come to love about cotton, plus compelling antimicrobial properties. We know of no competition for our pure cotton offering, so we could not compare this directly to any other claims in the industry. The test results showed exceptional effectiveness against both staph and diphtheria - results at least as good as those produced by competitive offerings such as silver-coated nylon wire."

Company web site: www.pooghe.com
Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Thong
Pooghe Laundry LLC

Category: Health and Fitness
Subcategory: Clothing

Type/Form Spun
Particle Size 10-15 nm
Conc. of Nano Ag -
Rate of Ag+ Release -
Classification Nano
Expected Lifetime permanent
Is the use disperseve? No

Structure of Particle and/or Substrate
Cotton with nano silver additives

Synthesis Method -

Use of Nanotechnology
The nanoparticles "are also chemically and permanently bonded to the fibers that are being enhanced."

Recommended Uses

Antimicrobial Claims

Product Testing Information
"NAMSA, an independent biomedical testing company, exposed two common microbes to fabric made with SmartSilver antimicrobial-enhanced fibers: corynbacterium diptheriae (commonly called diphtheria and known as a foot-area bacterium) and staphylococcus aureus (commonly called staph and present throughout the body). These microbes were chosen because they are a common source of unpleasant odor in clothing. The NAMSA tests were performed on enhanced polyester and enhanced cotton, which offers everything that people have come to love about cotton, plus compelling antimicrobial properties. We know of no competition for our pure cotton offering, so we could not compare this directly to any other claims in the industry. The test results showed exceptional effectiveness against both staph and diptheria - results at least as good as those produced by competitive offerings such as silver-coated nylon wire."

Company web site: www.pooghe.com
Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate
**Hot Tub Silver**

*Purest Colloids, Inc.*

**Category:** Home and Garden  
**Subcategory:** Cleaning  
**Number of associated products:** 1  
**This product uses:** N/A

## Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>&lt;0.65 nm</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Structure of Particle and/or Substrate

"True colloidal silver. Colloid means silver particles, not silver ions."


### Synthesis Method

"Silver particles are suspended in water, "Concentrated Colloidal Silver."


### Use of Nanotechnology

"This product is for treating your hot tub, it is not for human consumption... # Replaces hot tub chemicals; # Treats a 440 gallon hot tub."


### Recommended Uses

"This product is for treating your hot tub, it is not for human consumption... # Replaces hot tub chemicals; # Treats a 440 gallon hot tub."


### Antimicrobial Claims

"This product is for treating your hot tub, it is not for human consumption... # Replaces hot tub chemicals; # Treats a 440 gallon hot tub."


### Product Testing Information

-  

**Company web site:** www.purestcolloids.com  
**Product web site:** http://www.purestcolloids.com/mesosilver price list.  
**Company country:** USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
**Mesosilver® Brand Colloidal Silver**

*Purest Colloids, Inc.*

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
<th>Number of associated products:</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Personal Care</td>
<td>This product uses:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Product Info**

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>&lt;0.65 nm</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
<td>infinite shelf life</td>
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<td>20 ppm (min)</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**Structure of Particle and/or Substrate**

"True colloidal silver. Colloid means silver particles, not silver ions....
Highest nanoparticle concentration, 80% particles (typical)."


**Synthesis Method**

- Use of Nanotechnology
  Silver particles are suspended in water.

**Recommended Uses**

"Dosage
The dosage for MesoSilver is typically between one teaspoon (5mL) and one tablespoon (15mL) daily to help maintain health. Up to one tablespoon taken 4 times per day may be taken to help fortify the immune system when needed. Actual dosage will vary based on individual needs.
A 500 mL bottle will provide three months supply when used at a dosage of one teaspoon per day."


**Antimicrobial Claims**

"Because of the research showing colloidal silver's superior performance in fighting microbes, it has attracted the attention of leading scientists and medical researchers throughout the world....
According to experts, no microorganism ever tested has been able to stay alive for more than six minutes when exposed directly to colloidal silver....
In laboratory tests with colloidal silver, bacteria, viruses, and fungal organisms are killed within minutes of contact. Larry C. Ford, M.D. of the Department of Obstetrics and Gynecology, UCLA School of Medicine, Centre For The Health Sciences reported in November 1, 1988, 'I tested them (the silver solutions) using standard anti-microbial tests for disinfectants. The silver solutions were anti-bacterial for concentrations of 105 organisms per ml of Streptococcus Pyogenes, Staphylococcus Aureus, Neisseria Gonorrhea, Gardnerella Vaginalis, Salmonella Typhi and other enteric pathogens, and fungicidal for Candida Albicans, Candida Globata and M. Furfur.'"


**Product Testing Information**

Testing "Size Distribution Report by Volume" Colloidal Science Laboratory, Inc. Westampton, NJ (see company folder in the database)

<table>
<thead>
<tr>
<th>Company web site:</th>
<th><a href="http://www.purestcolloids.com">www.purestcolloids.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Product web site:</td>
<td><a href="http://www.purestcolloids.com/mesosilver.htm">http://www.purestcolloids.com/mesosilver.htm</a></td>
</tr>
</tbody>
</table>

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
Air-conditioning Filters
Quan Zhou Hu zheng Nano Technology Co., Ltd.

<table>
<thead>
<tr>
<th>Category:</th>
<th>Appliances</th>
<th>Number of associated products:</th>
<th>1</th>
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</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Heating, Cooling and Air</td>
<td>This product uses:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Product Info**

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
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<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Use of Nanotechnology**

Description of product on a translated website from Chinese, "spraying through nano-silver, nano-silver antibacterial plastic masterbatch injection, nano-silver vacuum coating, and other formats."


**Recommended Uses**

Air-conditioning filters.

**Antimicrobial Claims**

According to a translated website from Chinese, it "has antibacterial, anti-mold, with the exception of smell, is harmless to the human body and other characteristics."


**Product Testing Information**

**Company web site:** www.nano-cn.com
**Company country:** China

**Product web site:** http://translate.google.com/translate?u=http%3A%2F

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
## Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Nano</td>
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</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Notes

### Structure of Particle and/or Substrate

- 

### Synthesis Method

- 

### Use of Nanotechnology

**Description of product on a translated website from Chinese,** "the nano-silver Baoxianan using nano-silver technology, added to the Baoxianan, has bactericidal function."  

### Recommended Uses

According to a translated website from Chinese, "nano-silver Baoxianan using nano-silver technology, added to the Baoxianan, has bactericidal function. Preservation achieve real results, seal performance and specifications, complete, and can preserve fruits, dry goods, vegetables, fruit juice and other foodstuffs. also can be stored silver jewelry, clothing pasteurization and sealed demanding items."

### Antimicrobial Claims

"A. Sterilization good antibacterial function."

### Product Testing Information

**Company web site:** www.nano-cn.com  
**Company country:** China  
**Product web site:** http://translate.google.com/translate?u=http%3A%2F

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Nano-silver Toothpaste
Quan Zhou Hu zheng Nano Technology Co., Ltd.

Category: Health and Fitness
Subcategory: Personal Care

Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
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<td>Nano</td>
<td>Yes</td>
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<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
-

Synthesis Method
-

Use of Nanotechnology
-

Recommended Uses
Toothpaste.

Antimicrobial Claims
Available English translation of a Chinese website: "antibacterial, sterilization. kill all oral bacteria and viruses. prevention of periodontitis, halitosis, and other diseases. protection gum, teeth whitening."


Product Testing Information
-

Company website: www.nano-cn.com

Company country: China

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Silver 22
RBC Life Sciences, Inc.

Category: Food and Beverage
Subcategory: Supplements

Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
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<td>Colloid</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>22 ppm</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Structure of Particle and/or Substrate
A colloid in water, using 110 mcg purified silver (container: 120ml).

Synthesis Method
"RBC’s Silver 22 is nanoscale in size, is prepared by a unique, patented process."

Use of Nanotechnology
As a colloidal silver in pure water.

Recommended Uses
"As a liquid or a spray."

Antimicrobial Claims
"Silver has been used for its purifying and preservative properties by many cultures throughout history. The Greeks used silver vessels to keep water and other liquids fresh. In the late 1800’s and early 1900’s silver was used for its germicidal properties."

Product Testing Information
"Today, silver is popular among alternative medicine enthusiasts because of many positive personal reports and some impressive research results.*

* This statement has not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease."

Notes

Company web site: www.rbclifesciences.com
Product web site: http://813312.royalbodycare.com/Products.aspx?

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
## Hair Irons

**Category:**  Health and Fitness  
**Subcategory:** Personal Care  
**Number of associated products:** 5  
**This product uses:** N/A

### Product Info

<table>
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<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
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<tbody>
<tr>
<td>Coating</td>
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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

### Notes

**Structure of Particle and/or Substrate**
-  

**Synthesis Method**
-  

**Use of Nanotechnology**
A nano-silver spray coats the entire iron.

**Recommended Uses**
Hair straightener/ hair iron.

**Antimicrobial Claims**
"Nano-silver spray Nano-silver is sprayed on the whole surface of the body for sterilization and anti-electromagnetic wave, and the product looks more luxurious.


**Product Testing Information**
-  

**Company web site:** www.goodsei.com  
**Company country:** South Korea  

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Silver nano is coated on the notebook.

Recommended Uses
Laptop / notebook.

Antimicrobial Claims
"Silver Nano technology takes advantage of the anti-bacteria properties of silver to protect computer users from potentially harmful germs, moulds and bacteria. It is applied as a high-tech coating on the Q40's keyboard and palm rest."

Sources: All data are derived from internet searches. Source URLs are given where appropriate
# Samsung Split Type Air Conditioner

**Category:** Appliances  
**Subcategory:** Heating, Cooling and Air

**Number of associated products:** 9  
**This product uses:** Silver Nano Health System™

## Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>Nano</td>
<td>No</td>
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<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>permanent</td>
</tr>
</tbody>
</table>

### Structure of Particle and/or Substrate
It uses silver ions and resin material.


### Synthesis Method

**Use of Nanotechnology**

"Samsung has found a solution in the safety of silver, ionizing silver into ions for an effective coating that lets your home appliances remain remarkably free of bacteria and odors."

"Not only does the nano size allow the silver Ag+ ions to easily penetrate cells of microorganisms, but the positive charge increases surface area and even draws the negatively charged elements toward them increasing their ability to affect more molecules."


### Recommended Uses

Air conditioner.

### Antimicrobial Claims

Current products do not have any advertising for antibacterial, but the discontinued versions state:

"Silver Nano Anti-Bacterial Filter, Silver Nano Evaporator" or "Silver Nano Anti-Bacterial Filter"


### Product Testing Information

"Testing by Kyoto microbe Lab resulted in a certificate of disinfection. This two-way testing involved the growing of germs and penetrating them with Silver Nano particles and applying Silver Nano particles to each part of the air conditioner to go through the air-flow for 24 hours."


---

**Company web site:** www.samsungcorp.co.kr  
**Product web site:** http://www.samsung.com

**Company country:** South Korea

**Number of associated products:** 9  
**This product uses:** Silver Nano Health System™

---

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
## Samsung Window Type Air Conditioner

**Samsung Corporation**

### Category:
**Appliances**

### Subcategory:
**Heating, Cooling and Air**

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Expected Lifetime</th>
<th>Is the use dispersible?</th>
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</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>Nano</td>
<td>-</td>
<td>No</td>
</tr>
</tbody>
</table>

### Structure of Particle and/or Substrate
-  

### Synthesis Method
-  

### Use of Nanotechnology
"Silver Nano Filter  
Silver Nano Evaporator"


### Recommended Uses
**Air conditioner.**

### Antimicrobial Claims
-  

### Product Testing Information
-  

### Notes
-  

**Company website:** [www.samsungcorp.co.kr](http://www.samsungcorp.co.kr)  
**Product website:** [http://www.samsung.](http://www.samsung.)

**Company country:** South Korea

---

*Sources: All data are derived from internet searches. Source URLs are given where appropriate.*
**Silver Nano Health System™**

**Samsung Corporation**

**Category:** Cross-cutting  
**Subcategory:** Large Kitchen Appliances

**Number of associated products:** 1  
**This product uses:** N/A

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating</td>
<td>-</td>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>-</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Expected Lifetime</td>
<td></td>
</tr>
</tbody>
</table>

### Notes

**Structure of Particle and/or Substrate**

Silver ions.

**Synthesis Method**

- 

**Use of Nanotechnology**

"Samsung has found a solution in the safety of silver, ionizing silver into ions for an effective coating that lets your home appliances remain remarkably free of bacteria and odors.... Not only does the nano size allow the silver Ag+ ions to easily penetrate cells of microorganisms, but the positive charge increases surface area and even draws the negatively charged elements toward them increasing their ability to affect more molecules."


**Recommended Uses**

**Appliances.**

**Antimicrobial Claims**

"Silver Nano ions have proven their ability to sterilize over 650 types of bacteria and serve a better world up to you in style. Recent advancements in technology and increased consumer demand for health-promoting products are giving rise to many new items that use silver for highly effective sanitization so Samsung has developed a silver spoon for your appliances."


"The Silver Nano Health System™ is a comprehensive system developed by Samsung to improve your quality of life by eliminating bacteria from by the places that count most. Despite our hopes, the appliances we rely on often become breeding grounds for very bacteria and odors we hope to remove. Samsung has found a solution in the safety of silver, ionizing silver into ions for effective coating that lets your home appliances remain remarkably free of bacteria and odors.

Can you believe this? A washing machine that really, as in, really cleans clothes, zipping bacteria and germs by as much as 99.9% and it doesn’t need any special germ busting detergent or powder. Yes, Samsung did this! Imagine 400 billion silver ions dissolved in water to make a super cleaning solution that affects your clothes on an almost molecular. Samsung’s Silver Wash is an advanced washer with superb bacteria killing capabilities. Its ability to eliminate 99.99% of bacteria will redefine your idea of immaculate."


**Product Testing Information**

**FAQ for Silver:**

"Toxicology Test Results indicated no harmful effects in an Oral Test with mice. And NASA still uses silver to maintain water purity on the space shuttle. It is equally safe for children, pregnant women and the elderly"

"In fact, silver solutions have been reported to improve the healing of 'indolent wounds' and to 'regenerate damaged tissue.' The following chart from Harvard Medical School summarizes the properties of silver." (chart not shown on web site)

"Pure silver does not cause skin allergies. Skin allergies are caused by silver impurities rather than silver itself. Samsung’s Ag+ system only uses the purest silver and it will not be a cause of skin allergies. Dermatological Test results showed that the cloth treated with colloidal silver did not show a negative impact on human skin."

(misspellings are as on original web sites)


**Company web site:** www.samsungcorp.co.kr  
**Product web site:**

**Company country:** South Korea

Sources: All data are derived from internet searches. Source URLs are given where appropriate
## Silver Nano Refrigerator | 2-Door

*Samsung Corporation*

<table>
<thead>
<tr>
<th>Category:</th>
<th>Appliances</th>
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</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Large Kitchen Appliances</td>
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### Product Info

<table>
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<tbody>
<tr>
<td>Coating</td>
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<td>Nano</td>
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</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rate of Ag+ Release</td>
<td>-</td>
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<td></td>
<td></td>
<td>Expected Lifetime</td>
<td>permanent</td>
</tr>
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</table>

### Notes

#### Structure of Particle and/or Substrate

- 

#### Synthesis Method

- 

#### Use of Nanotechnology

"Odor particles are filtered through silver nano particles, decomposing and deodorizing unpleasant odors."


#### Recommended Uses

Keeping natural flavor in a refrigerator.

#### Antimicrobial Claims

"Odor particles are filtered through silver nano particles, decomposing and deodorizing unpleasant odors."


### Product Testing Information

- 

#### Company web site:

www.samsungcorp.co.kr

#### Product web site:

http://www.samsung.com/he/products/refrigerator/2_door/rt45eamt1xsh.asp

#### Sources:

All data are derived from internet searches. Source URLs are given where appropriate.
Silver Nano Refrigerator | Side by Side
Samsung Corporation

Category: Appliances
Subcategory: Large Kitchen Appliances

Number of associated products: 11
This product uses: Silver Nano Health System™

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
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<tbody>
<tr>
<td>Coating</td>
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<td>Nano</td>
<td>No</td>
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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
It uses silver ions.

Synthesis Method

Use of Nanotechnology
"a Silver Nano coating to the inner surfaces of Silver Nano refrigerators ... As air circulates, the coated surfaces allow the Silver ions to control the airborne bacteria"

"Apart from the shelves, fruit and vegetable crispers, the whole inner surface of the refrigerator is plated with a Silver Nano solid layer."

"Samsung has found a solution in the safety of silver, ionizing silver into ions for an effective coating that lets your home appliances remain remarkably free of bacteria and odors."
"Not only does the nano size allow the silver Ag+ ions to easily penetrate cells of microorganisms, but the positive charge increases surface area and even draws the negatively charged elements toward them increasing their ability to affect more molecules."

Recommended Uses
refrigerator

Antimicrobial Claims
"Sophisticated nano-technology has allowed Samsung to apply a Silver Nano coating to the inner surfaces of Silver Nano refrigerators for an overall antibacterial and antifungal effect... When germs come into contact with the wall, the Ag+ particles inhibit their respiration" (retrieved 07.12.2007)

Product Testing Information

Company web site: www.samsungcorp.co.kr
Product web site:

Sources: All data are derived from internet searches. Source URLs are given where appropriate
## Nano Silver Anti-bacterial Baby Bottle Brush

*Sang Shin Industrial Co., Ltd.*

### Category: Home and Garden
**Subcategory:** Cleaning

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

### Conc. of Nano Ag | Rate of Ag+ Release | Expected Lifetime |
| - | - | - |

### Notes

**Structure of Particle and/or Substrate**

"All our brushes for cleaning purposes are made with either PBT-based (Poly Butylene Terephthalate) bristles or anti-bacterial sponges."


**Synthesis Method**

"All our brushes for cleaning purposes are made with either PBT-based (Poly Butylene Terephthalate) bristles or anti-bacterial sponges."


**Recommended Uses**

Brushes to clean both baby bottles, water bottles and baby bottle nipples.

**Antimicrobial Claims**

"Silver(Ag+) has been known since ancient times to be effective in fighting bacteria and fungus, while delivering natural sterilization and detoxification.... Sang Shin is also using the benefits of silver in developing our new concept, Nano Silver, and have applied this technology in manufacturing our brush products."


**Product Testing Information**

- **Company web site:** [www.i-sangshin.com](http://www.i-sangshin.com/)

- **Product web site:** [http://www.i-sangshin.com/](http://www.i-sangshin.com/)

**Company country:** South Korea

*Sources: All data are derived from internet searches. Source URLs are given where appropriate.*
**Professional Hair Brush**  
*Sang Shin Industrial Co., Ltd.*

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
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<table>
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<tbody>
<tr>
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<td>Nano</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag⁺ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Notes**

**Structure of Particle and/or Substrate**

The technology is explained as "Nano Silver (Ag⁺)." They produce the bristles "by mixing Nylon 66 raw materials and anti-bacterial Nano Silver materials."


**Synthesis Method**

"Using Nano Silver technology, Sang Shin is producing high-quality brush bristles for your healthy hair. To accomplish this, we produce brush bristles by mixing and processing Nylon 66 raw materials and anti-bacterial Nano Silver materials."


**Recommended Uses**

Hair brush.

**Antimicrobial Claims**

"Silver(Ag⁺) has been recognized since ancient times as a substance with natural benefits to prevent bacteria and fungus, to sterilize and to detoxify. Taking full advantage of those benefits, Sang Shin is applying the new concept technology called 'Nano Silver' to our brush products."


**Product Testing Information**

**Company web site:** www.i-sangshin.com  
**Product web site:** http://www.i-sangshin.com/  
**Company country:** South Korea
# Contour-Foam™

**Sharper Image Corporation**

## Category:
Cross-cutting

## Subcategory:
Bedding / Pillows

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersable?</th>
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</thead>
<tbody>
<tr>
<td>Solid</td>
<td>-</td>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

## Notes

### Use of Nanotechnology

"Contour-Foam™ Silver is Sharper Image's exclusive space-age viscoelastic foam material that responds to your body's shape, weight and warmth to form a custom cradle of uniform support — free of pressure points. In quality and comfort, it is equal of nationally advertised brands costing much more — plus it's infused with silver for its antibacterial benefits!"


### Recommended Uses

It is found in their products ranging from pillows to shoes.

### Antimicrobial Claims

"Silver — yes, the actual metal found in silverware — is naturally anti-mite, anti-mold, anti-microbe, and it fights odors too. In particle form, silver is a safe, medically proven antibacterial agent with ions that interfere with the respiratory metabolism of microbes."


### Product Testing Information

<table>
<thead>
<tr>
<th>Company web site:</th>
<th><a href="http://www.sharperimage.com">www.sharperimage.com</a></th>
</tr>
</thead>
</table>

| Company country: | USA |

---

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
Contour-Foam™ Crescent Travel & Nap Pillow
Sharper Image Corporation

**Category:** Home and Garden  
**Subcategory:** Bedding / Pillows

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
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</thead>
<tbody>
<tr>
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<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Expected Lifetime**

**Use of Nanotechnology**

"Ultra-fine silver particles are infused throughout Sharper Image's exclusive space-age Contour-Foam Silver products."


**Recommended Uses**

"[F]or your head and neck when napping around the house or traveling around the world."


**Antimicrobial Claims**

"Silver — yes, the actual metal found in silverware — is naturally anti-mite, anti-mold, anti-microbe, and it fights odors too. In particle form, silver is a safe, medically proven antibacterial agent with ions that interfere with the respiratory metabolism of microbes."


**Company web site:** www.sharperimage.com  
**Company country:** USA

**Product web site:**
Contour-Foam™ Silver Back-Support Pillow

Sharper Image Corporation

Category: Home and Garden
Subcategory: Bedding / Pillows

Number of associated products: 1
This product uses: Contour-Foam™

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Conc. of Nano Ag</td>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Solid</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>No</td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
-

Synthesis Method
-

Use of Nanotechnology
"Ultra-fine silver particles are infused throughout Sharper Image's exclusive space-age Contour-Foam Silver products."

Recommended Uses
Back support pillow.

Antimicrobial Claims
"Silver — yes, the actual metal found in silverware — is naturally anti-mite, anti-mold, anti-microbe, and it fights odors too. In particle form, silver is a safe, medically proven antibacterial agent with ions that interfere with the respiratory metabolism of microbes."

Product Testing Information
-

Sources: All data are derived from internet searches. Source URLs are given where appropriate
### Contour-Foam™ Silver Neck-Support Pillow

**Category:** Home and Garden  
**Subcategory:** Bedding / Pillows  
**Number of associated products:** 4  
**This product uses:** Contour-Foam™

<table>
<thead>
<tr>
<th>Product Info</th>
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<tbody>
<tr>
<td><strong>Type/Form</strong></td>
</tr>
<tr>
<td>Solid</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
</tr>
</tbody>
</table>

**Notes**

**Structure of Particle and/or Substrate**

**Synthesis Method**

**Use of Nanotechnology**

"Ultra-fine silver particles are infused throughout Sharper Image's exclusive space-age Contour-Foam Silver products."

**Recommended Uses**

"Contour-Foam™ Silver is Sharper Image's exclusive space-age viscoelastic foam material that responds to your body's shape, weight and warmth to form a custom cradle of uniform support — free of pressure points."

**Antimicrobial Claims**

"Silver — yes, the actual metal found in silverware — is naturally anti-mite, anti-mold, anti-microbe, and it fights odors too. In particle form, silver is a safe, medically proven antibacterial agent with ions that interfere with the respiratory metabolism of microbes."

**Product Testing Information**

**Company web site:** www.sharperimage.com  
**Product web site:**  
**Company country:** USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate
## Contour-Foam™ Slipper Sandals

*Sharper Image Corporation*

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Clothing</td>
</tr>
<tr>
<td>Number of associated products:</td>
<td>1</td>
</tr>
<tr>
<td>This product uses:</td>
<td>Contour-Foam™</td>
</tr>
</tbody>
</table>

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
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<tbody>
<tr>
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<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

### Notes

**Structure of Particle and/or Substrate**
- 

**Synthesis Method**
- 

**Use of Nanotechnology**

"Ultra-fine silver particles are infused throughout Sharper Image's exclusive space-age Contour-Foam Silver products. " (from other Contour-Foam Example)


**Recommended Uses**

"# Contour-Foam® insoles respond to your foot's shape, weight and warmth to provide pressure-free support.  
# Designed for men and women, Zoree sandals feature faux suede straps and durable molded outer soles that can be worn indoors or out. "


**Antimicrobial Claims**

"Silver — yes, the actual metal found in silverware — is naturally anti-mite, anti-mold, anti-microbe, and it fights odors too. In particle form, silver is a safe, medically proven antibacterial agent with ions that interfere with the respiratory metabolism of microbes. " (from other Contour-Foam Example)


**Product Testing Information**

<table>
<thead>
<tr>
<th>Company web site:</th>
<th><a href="http://www.sharperimage.com">www.sharperimage.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Product web site:</td>
<td></td>
</tr>
</tbody>
</table>

**Company country:** USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate
# Contour-Foam™ Slippers

**Sharper Image Corporation**

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
<th>Number of associated products:</th>
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<tbody>
<tr>
<td>Subcategory:</td>
<td>Clothing</td>
<td>This product uses:</td>
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## Product Info

<table>
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<th>Classification</th>
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<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
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<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

## Notes

### Structure of Particle and/or Substrate

- 

### Synthesis Method

- 

### Use of Nanotechnology

"Sharper Image’s new Contour-Foam™ Silver slippers feature insoles of viscoelastic foam that’s infused with microscopic particles of silver."


### Recommended Uses

"# Unisex slippers with heat-sensitive Contour-Foam insoles respond to your body's shape, weight and warmth to mold a custom cradle of pressure-free support.

# Synthetic, suede-look uppers are stain resistant; soft chenille lining keeps feet warm and dry; polyurethane outer soles are for indoor and outdoor wear."


### Antimicrobial Claims

It is "the antibacterial product of the latest nanotechnology. These ultra-fine silver nanoparticles cannot be seen or felt but they really enhance these slippers by killing or reducing the growth of odor-causing bacteria and of fungus that can irritate your skin."


### Product Testing Information

- 

### Sources: All data are derived from internet searches. Source URLs are given where appropriate
FresherLonger™ Miracle Food Storage
Sharper Image Corporation

Category: Food and Beverage
Subcategory: Storage

Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology
Sharper Image originally claimed that the nano silver was infused into the product.

Recommended Uses
Food storage for home use.

Antimicrobial Claims
"Sharper Image’s exclusive FresherLonger™ Miracle Food Storage Containers are made of specially treated air- and odor-impermeable polypropylene and they feature a patent-pending, airtight silicone-gasket locking system that helps prevent spoilage. The containers are spillproof, shatterproof and safe for the dishwasher, microwave and fridge. They help prevent freezer burn too! The translucent containers' rectangular shape makes for efficient storage; they have snap closures on all four sides for extra security. 90-day warranty."


Product Testing Information

Company web site: www.sharperimage.com
Product web site: www.sharperimage.com

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
FresherLonger™ Plastic Storage Bags
Sharper Image Corporation

Category: Food and Beverage
Subcategory: Storage

Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
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</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>Nano</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
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</thead>
<tbody>
<tr>
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<td>-</td>
<td>-</td>
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</tbody>
</table>

Notes

Structure of Particle and/or Substrate

- 

Synthesis Method

- 

Use of Nanotechnology

Sharper Image originally claimed that the nano silver was infused into the product.

Recommended Uses

"FresherLonger™ plastic storage bags feature a specially treated material and an air-locking zip-top seal to extend the shelf life of lettuce, fresh herbs, spinach, green beans, cucumbers, broccoli, carrots, celery — all kinds of vegetables as well as fruits and meats. Wash and reuse these bags as often as you like!"


"FresherLonger bags are transparent with the signature gold tint of silver nanoparticles."


As of June 12, 2007, Sharper Image says:
"The perfect complement to our FresherLonger™ containers, our exclusive FresherLonger™ plastic storage bags feature a specially treated material and an air-locking zip-top seal to extend the shelf life of lettuce, fresh herbs, spinach, green beans, cucumbers, broccoli, carrots, celery — all kinds of vegetables as well as fruits and meats. Wash and reuse these bags as often as you like!

These unique bags are transparent, with the FresherLonger™ signature gold tint. Safe for freezer and microwave too. Each has a labeling area to note contents and storage date. Purchase includes 25 bags: 10 small (0.5 gallon); 10 medium (1 gallon); and 5 large (1.2 gallon). 90-day warranty."


Antimicrobial Claims

"The perfect complement to FresherLonger™ containers, our new FresherLonger™ plastic storage bags are infused with silver nanoparticles to help keep food from spoiling so fast by retarding the growth of bacteria, mold and fungus."

Sources: All data are derived from internet searches. Source URLs are given where appropriate
# Sharper Image Athletic Socks

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** N/A

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
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</table>

## Notes

### Structure of Particle and/or Substrate

### Synthesis Method

### Use of Nanotechnology

### Recommended Uses

### Antimicrobial Claims

### Product Testing Information

**Company web site:** www.sharperimage.com  
**Company country:** USA  
**Product web site:**

*Sources: All data are derived from internet searches. Source URLs are given where appropriate*
Air Sanitizer, Nano Silver Photocatalyst
Shenzhen Become Industry Trade Co., Ltd.

Category: Home and Garden
Subcategory: Cleaning

Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersible?</th>
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<tbody>
<tr>
<td>Coating &amp; Spray</td>
<td>-</td>
<td>Nano</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>24 hr (for air)</td>
<td></td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
Made with "TiO2, nanometer Ag (Ag content ≥1%), SiO2 and modifying resin, etc."

Synthesis Method

Use of Nanotechnology
This solution is to be sprayed on household products to form a protective antibacterial coating. It states that it takes 10 min to dry but 24 hours to set. It apparently sterilizes the air for 24 hours (the time for which it retains moisture).

Recommended Uses
"Purifying accessible indoor office and household goods, such as telephone, computer keyboard, mouse, table, cabinet, chair, armrest, doorknob, lamps."

Antimicrobial Claims
"Nano silver photocatalyst keeps the features of common air sanitizer. Because of adding nanometer Ag, etc. the air sanitizer has capabilities of stronger oxidation reductive reaction, sterilization, deodorization, decomposing and adsorption, but also has the efficiency of persisting in sterilization (Can sterilize even in the conditions of no light) and keeping moisture within 24 hours."

Product Testing Information

Company web site: Company country: China
Product web site:

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
# Aloe Vera Cream

**Skybright Natural Health**

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Cosmetics</td>
</tr>
<tr>
<td>Number of associated products:</td>
<td>1</td>
</tr>
<tr>
<td>This product uses:</td>
<td>Colloidal Silver Liquid</td>
</tr>
</tbody>
</table>

## Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>-</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&lt; 6 ppm</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Notes

**Structure of Particle and/or Substrate**

- 

**Synthesis Method**

- 

**Use of Nanotechnology**

Colloidal silver and extracts of aloe vera are used as a salve and to promote healing.

**Recommended Uses**

*Topical skin cream.*

**Antimicrobial Claims**

- 

**Product Testing Information**

- 

**Company web site:** www.skybright.co.nz  
**Company country:** New Zealand

**Product web site:**
## Arnica Cream

*Skybright Natural Health*

### Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>-</td>
<td>Colloid</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 6 ppm</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Notes

**Structure of Particle and/or Substrate**

This skin cream contains "Colloidal Silver Cream and added extracts of Arnica to enhance its beneficial effects."


**Synthesis Method**

- **Use of Nanotechnology**

This skin cream contains "Colloidal Silver Cream and added extracts of Arnica to enhance its beneficial effects."


**Recommended Uses**

"Use to assist the healing of bumps, bruises or sprains."


**Antimicrobial Claims**

- **Product Testing Information**

- **Company web site:** www.skybright.co.nz
  **Company country:** New Zealand

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Calendula Cream
Skybright Natural Health

Category: Health and Fitness
Subcategory: Cosmetics

Number of associated products: 1
This product uses: Colloidal Silver Liquid

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
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<td>Colloid</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
<td>-</td>
</tr>
<tr>
<td>&lt; 6 ppm</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Structure of Particle and/or Substrate
This skin cream contains "Colloidal Silver Cream and added extracts of Calendula to enhance its beneficial effects."

Synthesis Method

Use of Nanotechnology
This skin cream contains "Colloidal Silver Cream and added extracts of Calendula to enhance its beneficial effects."

Recommended Uses
"Calendula is used to help soothe skin eruptions and promote healing."

Antimicrobial Claims

Product Testing Information

Company web site: www.skybright.co.nz
Company country: New Zealand
Product web site: www.skybright.co.nz

Notes

Synthesis Method

Use of Nanotechnology
This skin cream contains "Colloidal Silver Cream and added extracts of Calendula to enhance its beneficial effects."

Recommended Uses
"Calendula is used to help soothe skin eruptions and promote healing."

Antimicrobial Claims

Product Testing Information

Company web site: www.skybright.co.nz
Company country: New Zealand
Product web site: www.skybright.co.nz

Sources: All data are derived from internet searches. Source URLs are given where appropriate
Chickweed Cream
Skybright Natural Health

Category: Health and Fitness
Subcategory: Cosmetics
Number of associated products: 1
This product uses: Colloidal Silver Liquid

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>-</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt; 6 ppm</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Structure of Particle and/or Substrate
This skin cream contains "Colloidal Silver Cream and added extracts of Chickweed to enhance its beneficial effects.

Synthesis Method

Use of Nanotechnology
This skin cream contains "Colloidal Silver Cream and added extracts of Chickweed to enhance its beneficial effects.

Recommended Uses
"Chickweed has been used for many years for the treatment of itching and irritation.

Antimicrobial Claims

Product Testing Information

Company web site: www.skybright.co.nz
Product web site: www.skybright.co.nz

Company country: New Zealand

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
## Colloidal Silver Cream

**Skybright Natural Health**

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Cosmetics</td>
</tr>
<tr>
<td>Number of associated products:</td>
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</tr>
<tr>
<td>This product uses:</td>
<td>Colloidal Silver Liquid</td>
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</tbody>
</table>

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>-</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&lt; 6 ppm</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Notes

#### Structure of Particle and/or Substrate

"Very fine particles of 99.9% pure ionic silver dispersed in laboratory grade water.... The Skybright silver particles are measured in nanometre size. Third particle size is very important as, if they are much bigger than this, they will not be easily absorbed by the body and therefore are of no use. We have not found a battery-operated colloidal silver generator that will produce particles small enough to be effective."


#### Synthesis Method

"Our Ionic Colloidal Silver is made by pumping artesian water through a filter bank containing carbon, reverse osmosis, micro and mixed-bed resin filters, to produce laboratory grade water. From there, it enters the colloidal silver generator, which is the very latest computer-controlled generator, producing the finest quality Colloidal Silver available. It then passes through a .5-micron filter, to the bottling plant."


#### Use of Nanotechnology

Colloidal silver is used in a cream "Our cream also contains manuka oil, avocado oil, vitamin E and jojoba oil; all of which have soothing and restorative properties."


"According to the Oxford Dictionary, the word Colloidal means “a substance consisting of sub-microscopic particles of one substance dispersed in another”. So, basically, Colloidal Silver is very tiny particles of silver suspended in water."


#### Recommended Uses

As a skin cream, but also as a salve to treat broken skin.

#### Antimicrobial Claims

"Silver was used before antibiotics were invented and now that bacteria are becoming resistant to these drugs, the anti bacterial qualities of Silver have been rediscovered by medicine. Preparations containing Silver Colloids are now used in nearly every Burn Unit in the U.S.A."


#### Product Testing Information

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**Company web site:** [www.skybright.co.nz](http://www.skybright.co.nz)

**Product testing information:**

---

**Company country:** New Zealand

---

*Sources: All data are derived from internet searches. Source URLs are given where appropriate*
Colloidal Silver Liquid
Skybright Natural Health

Category: Health and Fitness
Subcategory: Personal Care
Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>-</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>6 ppm</td>
<td>-</td>
<td></td>
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</tr>
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</table>

Notes

Structure of Particle and/or Substrate
"Very fine particles of 99.9% pure ionic silver dispersed in laboratory grade water.... The Skybright silver particles are measured in nanometre size. Third particle size is very important as, if they are much bigger than this, they will not be easily absorbed by the body and therefore are of no use. We have not found a battery-operated colloidal silver generator that will produce particles small enough to be effective."

Synthesis Method
"Our Ionic Colloidal Silver is made by pumping artesian water through a filter bank containing carbon, reverse osmosis, micro and mixed-bed resin filters, to produce laboratory grade water. From there, it enters the colloidal silver generator, which is the very latest computer-controlled generator, producing the finest quality Colloidal Silver available. It then passes through a .5-micron filter, to the bottling plant."

Use of Nanotechnology
Colloidal silver is suspended in a solution and used home remedy medical purposes.
"According to the Oxford Dictionary, the word Colloidal means "a substance consisting of sub-microscopic particles of one substance dispersed in another". So, basically, Colloidal Silver is very tiny particles of silver suspended in water."

Recommended Uses
*Dosages:
Take as directed; if symptoms persist please consult your health professional.

Liquid – Adults: take 5ml three times a day for five days then drop back to 5ml a day.
Children under 10 years of age: take a half measure.

Drops – for eyes or ears – 1 drop three times a day. If you have trouble using eye drops, then try the Spray bottle and spray Colloidal Silver gently onto the eyes.

Spray – Can be sprayed in the mouth, to ease the symptoms of a sore throat.
Can also be sprayed onto skin, to aid the healing of cuts, scratches or acne. Can be used on broken skin. The best results are obtained by spraying onto the area and then keeping it damp for 15 minutes. This may require several sprays. Allow the area to dry and then apply Skybright Colloidal Silver Cream. Repeat this once or twice a day until

Antimicrobial Claims
"Silver was used before antibiotics were invented and now that bacteria are becoming resistant to these drugs, the anti bacterial qualities of Silver have been rediscovered by medicine. Preparations containing Silver Colloids are now used in nearly every Burn Unit in the U.S.A."

Product Testing Information
"We monitor our generator regularly to ensure that the particle size remains constant, plus we monitor the amount of silver to ensure that it remains at about 6 parts per million (ppm). NZ regulations restrict ppm to a maximum of 10ppm. We have independent laboratory tests done regularly to test our products and 6ppm is as effective as a higher level."

Company web site: www.skybright.co.nz
Product web site: www.skybright.co.nz
Company country: New Zealand

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Lip Balms
Skybright Natural Health

Category: Health and Fitness
Subcategory: Cosmetics

Number of associated products: 1
This product uses: Colloidal Silver Liquid

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>-</td>
<td>Colloid</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 6 ppm</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology
"Both are hand made with all natural ingredients, including pure essential oils (to nourish) and colloidal silver (a preservative and to aid the healing of dry, cracked lips)."

Recommended Uses
Lip balm.

Antimicrobial Claims

Product Testing Information

Company web site: www.skybright.co.nz
Product web site: www.skybright.co.nz

Company country: New Zealand

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
## Oxy

**Skybright Natural Health**

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Personal Care</td>
</tr>
<tr>
<td>Number of associated products:</td>
<td>1</td>
</tr>
<tr>
<td>This product uses:</td>
<td>Colloidal Silver Liquid</td>
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### Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
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</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>-</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 6 ppm</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Notes

**Structure of Particle and/or Substrate**

"Oxy is a powerful combination of our 6ppm Colloidal Silver and 3% Hydrogen Peroxide (H2O2)."


**Synthesis Method**

- Use of Nanotechnology

Colloidal silver is used in conjunction with hydrogen peroxide to be used as a "disinfectant, antiseptic, and oxidizer."


**Recommended Uses**

It seems to be for cleaning wounds but they do not say that, they state that it "helps increase the body's natural defence against bacteria."


**Antimicrobial Claims**

"Anaerobic bacteria cells are unable to live in an oxygen rich environment, so Skybright Oxy helps increase the body’s natural defense against bacteria."


**Product Testing Information**

- Company web site: www.skybright.co.nz
- Company country: New Zealand

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Shampoo and Conditioner
Skybright Natural Health

Category: Health and Fitness
Subcategory: Personal Care
Number of associated products: 1
This product uses: Colloidal Silver Liquid

Product Info

Type/Form Particle Size Classification Is the use disperseve?
Liquid - Colloid Yes
Conc. of Nano Ag Rate of Ag+ Release Expected Lifetime
< 6 ppm - -

Notes

Structure of Particle and/or Substrate
Synthesis Method

Use of Nanotechnology
“Both formulations contain our own Colloidal Silver, so have the added ability of helping rid the scalp of flaking or itchiness. All of the ingredients are derived from vegetable or plant extracts and are G.E. free.”

Recommended Uses
Shampoo and conditioner.

Antimicrobial Claims

Product Testing Information

Company web site: www.skybright.co.nz
Product web site: 
Company country: New Zealand

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Soaps
Skybright Natural Health

Category: Health and Fitness
Subcategory: Personal Care
Number of associated products: 1
This product uses: Colloidal Silver Liquid

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
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<tbody>
<tr>
<td>Solid</td>
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<td>Colloid</td>
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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>&lt; 6 ppm</td>
<td>-</td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate
-

Synthesis Method
-

Use of Nanotechnology
“Our natural soaps are handmade in North Canterbury and contain our own antibacterial Skybright Colloidal Silver as well as nourishing oils.”

Recommended Uses
Hand soap.

Antimicrobial Claims
It “contain our own antibacterial Skybright Colloidal Silver.”

Product Testing Information
-

Company web site: www.skybright.co.nz
Product web site: www.skybright.co.nz
Company country: New Zealand

Sources: All data are derived from internet searches. Source URLs are given where appropriate
St. Johns Wort Cream
Skybright Natural Health

Category: Health and Fitness
Subcategory: Cosmetics
Number of associated products: 1
This product uses: Colloidal Silver Liquid

Product Info

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>-</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt; 6 ppm</td>
<td>-</td>
<td></td>
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</tr>
</tbody>
</table>

Structure of Particle and/or Substrate
This skin cream contains "Colloidal Silver Cream and added extracts of St Johns Wort, to enhance its beneficial effects."

Synthesis Method

Use of Nanotechnology
This skin cream contains "Colloidal Silver Cream and added extracts of St Johns Wort, to enhance its beneficial effects."

Recommended Uses
"Herbalists have long employed a topical preparation of this herb to assist the healing of bruises, skin irritations, insect bites and other wounds. Has a calming effect on the body."

Antimicrobial Claims

Product Testing Information

Company web site: www.skybright.co.nz
Company country: New Zealand
Product web site: www.skybright.co.nz

Notes

Sources: All data are derived from internet searches. Source URLs are given where appropriate
Surface Sanitizer

Skybright Natural Health

Category: Home and Garden
Subcategory: Cleaning
Number of associated products: 1
This product uses: Colloidal Silver Liquid

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersible?</th>
</tr>
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<tbody>
<tr>
<td>Coating &amp; Spray</td>
<td>-</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>&lt; 6 ppm</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate

- 

Synthesis Method

- 

Use of Nanotechnology

A disinfectant spray: "Contains our Colloidal Silver, with its antibacterial properties, plus Hydrogen Peroxide and Olive Leaf Extract."

Recommended Uses

"This is a natural disinfectant that is an ideal size for campers and trampers, to use in areas where hygiene is uncertain."

Antimicrobial Claims

"Spray onto toilet seats, bench tops, showers, etc, and know that the surface is then clear of 99% of bacteria."

Product Testing Information

- 

Company web site: www.skybright.co.nz
Company country: New Zealand
Product web site: 

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
# Wild Yam Cream

*Skybright Natural Health*

<table>
<thead>
<tr>
<th>Category:</th>
<th>Health and Fitness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcategory:</td>
<td>Cosmetics</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of associated products:</th>
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</tr>
</thead>
<tbody>
<tr>
<td>This product uses:</td>
<td>Colloidal Silver Liquid</td>
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</tbody>
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## Product Info

<table>
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<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td></td>
<td>Colloid</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 6 ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Notes

**Structure of Particle and/or Substrate**

This skin cream contains "Colloidal Silver Cream and added extracts of Wild Yam to enhance its beneficial effects."  

**Use of Nanotechnology**

This skin cream contains "Colloidal Silver Cream and added extracts of Wild Yam to enhance its beneficial effects."  

**Recommended Uses**

"Wild Yam is a valuable herb that may help to relieve the adverse symptoms of menopause, intestinal and joint pain."  

**Antimicrobial Claims**

- **Company web site:** [www.skybright.co.nz](http://www.skybright.co.nz)

**Product web site:**

**Company country:** New Zealand

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Witch Hazel Cream
Skybright Natural Health

Category: Health and Fitness
Subcategory: Cosmetics
Number of associated products: 1
This product uses: Colloidal Silver Liquid

<table>
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<tr>
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<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>-</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>&lt; 6 ppm</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Structure of Particle and/or Substrate
This skin cream contains "Colloidal Silver Cream and added extracts of Witch Hazel, to enhance its beneficial effects."

Synthesis Method

Use of Nanotechnology
This skin cream contains "Colloidal Silver Cream and added extracts of Witch Hazel, to enhance its beneficial effects."

Recommended Uses
"Witch Hazel may be useful in the easing of pain caused by haemorrhoids, and aid in the treatment of bruises and inflamed swellings of veins."

Antimicrobial Claims

Product Testing Information

Company web site: www.skybright.co.nz
Company country: New Zealand
Product web site: www.skybright.co.nz

Sources: All data are derived from internet searches. Source URLs are given where appropriate
Acticoat
Smith & Nephew, Inc.

Category: Medical Applications
Subcategory: Dressing
Number of associated products: 5
This product uses: SILCRYST™

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
</tr>
</thead>
<tbody>
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<td>Coating</td>
<td>1-100 nm</td>
<td>Nano Ag</td>
<td>No</td>
</tr>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Expected Lifetime</td>
<td>3 days (in vitro)</td>
</tr>
<tr>
<td>70-100 ppm</td>
<td>-</td>
<td></td>
<td></td>
</tr>
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</table>

Structure of Particle and/or Substrate
A silver nanocrystalline coating.

Synthesis Method
Through reactive magnetron sputtering (a type of physical vapor deposition).

Use of Nanotechnology
"The silver antimicrobial barrier dressing consists of a rayon/polyester non-woven core laminated (by sonic welds) between an upper and lower layer of silver coated high density polyethylene mesh (HDPE). The silver coated HDPE layers are designed to be barriers against microbial penetration."

Recommended Uses
Burn wound dressing, "The barrier function of the dressing may help reduce infection in partial and full-thickness wounds including decubitus ulcers, venous stasis ulcers, diabetic ulcers, first- and second-degree burns, and donor sites."

Antimicrobial Claims
"Kills bacteria in vitro in as little as 30 minutes. 2-5 times faster than other forms of silver¥7,8,9,10."
"Laboratory studies show that the Acticoat dressing kills micro-organisms faster than conventional products such as silver sulfadiazine (1 percent cream) or silver nitrate (0.5%) solution. It has also been shown in-vitro to provide protection against more than 150 pathogens. The pathogens tested in the lab include very resistant strains of bacteria such as antibiotic-resistant strains of Pseudomonas, methicillin-resistant Staphylococcus aureus, vancomycin-resistant Enterococcus and fungi. These pathogens have been known to sweep through a hospital and infect a great many patients with already weakened immune systems. Infections contracted during hospitalization caused by these so-called superbugs and other organisms cost North American taxpayers an estimated $18 billion a year in additional hospital care."
"The nanocrystalline coating of pure silver delivers antimicrobial barrier activity within 30 minutes - faster than other forms of silver."

Product Testing Information

References:
1. Data on file, Scientific Background # 0109003, Broad Spectrum Antimicrobial Properties of Nanocrystalline Silver
2. Data on file, Scientific Background # 0110002, A Comparative In-Vitro Evaluation of Acticoat* Against Clinically Relevant Bacteria
3. Data on file, Scientific Background # 0107010, A Comparative In-Vitro Evaluation of Acticoat* Against Antibiotic-Resistant Bacteria
5. Data on file, Scientific Background # 0110004, The In-Vitro Longevity of Antimicrobial Barrier Properties of Acticoat* Against Clinically Relevant Bacteria
6. Data on file, Scientific Background # 109002, Long Term Evaluation of Acticoat* 7 Barrier Dressing against MRSA.
8. Yin HQ et al., J. Burn Care Rehabil 1998, 19:531-537
11 Tredget EE et al. J. Burn Care Rehabil 1998, 19:531-537
12 Sibbald RG et al. Ostomy/Wound Management 2001, 47(10) 38-43

Company web site: www.smith-nephew.com
Product web site: http://global.smith-nephew.com

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
# Nano Air-filter

*Songsing Nano Technology Co., Ltd.*

| Category: | Home and Garden |
| Subcategory: | Cleaning |

**Number of associated products:** 1  
**This product uses:** N/A

## Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

**Expected Lifetime:**

## Notes

- **Structure of Particle and/or Substrate**
- **Synthesis Method**
- **Use of Nanotechnology**
- **Recommended Uses**
  - *air-filter*
- **Antimicrobial Claims**
- **Product Testing Information**

**Company web site:** [www.ssnano.net](http://www.ssnano.net)  
**Company country:** Taiwan (R.O.C.)

*Sources: All data are derived from internet searches. Source URLs are given where appropriate.*
# Nano Pacifier

*Songsing Nano Technology Co., Ltd.*

<table>
<thead>
<tr>
<th>Category:</th>
<th>Goods for Children</th>
</tr>
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<tbody>
<tr>
<td>Subcategory:</td>
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<td>Number of associated products:</td>
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<tr>
<td>This product uses:</td>
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## Product Info

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<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
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</tr>
</thead>
</table>

## Notes

- **Structure of Particle and/or Substrate**
- **Synthesis Method**
- **Use of Nanotechnology**
- **Recommended Uses**
  - Pacifier.
- **Antimicrobial Claims**
- **Product Testing Information**

**Company web site**:  [www.ssnano.net](http://www.ssnano.net)


**Company country**:  Taiwan (R.O.C.)

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Nano Silver Socks

Songsing Nano Technology Co., Ltd.

**Category:** Health and Fitness  
**Subcategory:** Clothing  
**Number of associated products:** 1  
**This product uses:** N/A

### Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
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</tr>
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<tbody>
<tr>
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<td>-</td>
<td>Nano</td>
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<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
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</thead>
<tbody>
<tr>
<td>-</td>
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<td>-</td>
<td></td>
</tr>
</tbody>
</table>

### Notes

**Structure of Particle and/or Substrate**
- 

**Synthesis Method**
- 

**Use of Nanotechnology**
- 

**Recommended Uses**

"Function of nano silver socks and shoe's pads: Sterilization and Deodorization enables foot dry and comfortable"


**Antimicrobial Claims**

"The socks contain the functions of nano silver, can be effectively restrain foot mould, carryover effect of anti-bacteria, enables the foot cool and clean, release the uncomfortable condition."


**Product Testing Information**
- 

**Company web site:** www.ssnano.net  
**Product web site:** http://www.ssnano.net/ehtml/0418b.php  
**Company country:** Taiwan (R.O.C.)

*Sources: All data are derived from internet searches. Source URLs are given where appropriate*
Nano Silver Spray
Songsing Nano Technology Co., Ltd.

Category: Health and Fitness
Subcategory: Personal Care

Number of associated products: 1
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
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<tbody>
<tr>
<td>Coating &amp; Spray</td>
<td>-</td>
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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Notes

Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology
A solution that contains antibacterial silver ions for the purpose of sterilization.

Recommended Uses
"Function of nano silver spray: Sterilization and Deodorization."

Antimicrobial Claims
"This product has passed the test of SGS, proving that it has approximately 99.9% of sterilizing effect, killing staphylococcus, aureus, klebsiella pneumoniae, escherichia coli, pseudomonas aeruginosa, etc. The silver ion stays even after killing bacteria, and it can sterilize and purify water lasting and effectively, which makes the product the most advanced and the best sterilizer."

Product Testing Information
"This product has passed the test of SGS, proving that it has approximately 99.9% of sterilizing effect, killing staphylococcus, aureus, klebsiella pneumoniae, escherichia coli, pseudomonas aeruginosa, etc."

Company web site: www.ssnano.net
Product web site: http://www.ssnano.net/ehtml/0418b.php

Company country: Taiwan (R.O.C.)

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Nano Silver Teapot
Songsing Nano Technology Co., Ltd.

Category: Food and Beverage
Subcategory: Storage

Number of associated products: 1
This product uses: N/A

Type/ Form -
Particle Size -
Conc. of Nano Ag -
Rate of Ag+ Release -
Classification Nano
Expected Lifetime -
Is the use disperseve? No

Use of Nanotechnology
"We take the technology of using lower temperature to dealt with the teapot, enables the teapot possess the function of nano silver, disinfecting, water-cleaing qualit, getting rid of the bitter taste of the tea, having improved the additional value of the teapot greatly, the tea is tasty and healthy."

Recommended Uses
Teapot.

Antimicrobial Claims
"Function of nano teapot: Anti-bacteria effectively, get rid of water mouldly; Water-cleaning quality, drink healthier; Getting rid of the bitter taste of the tea, the taste is aromatic and tasty"

Product Testing Information

Company web site: www.ssnano.net
Product web site: http://www.ssnano.net/ehtml/0418b.php

Company country: Taiwan (R.O.C.)

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
# Nano Toothbrush

**Songsing Nano Technology Co., Ltd.**

**Category:** Health and Fitness  
**Subcategory:** Personal Care

**Number of associated products:** 1  
**This product uses:** N/A

## Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
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<tr>
<td>-</td>
<td>-</td>
<td>Nano</td>
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</tr>
</tbody>
</table>

| Conc. of Nano Ag | Rate of Ag+ Release | Expected Lifetime | |
|------------------|---------------------|-------------------||
| -                | -                   | -                 | |

## Notes

- **Structure of Particle and/or Substrate**
- **Synthesis Method**
- **Use of Nanotechnology**
- **Recommended Uses**  
  Toothbrush.
- **Antimicrobial Claims**
- **Product Testing Information**
- Company web site: [www.ssnano.net](http://www.ssnano.net)

**Company country:** Taiwan (R.O.C.)

### Sources:
All data are derived from internet searches. Source URLs are given where appropriate.
Remington Nanosilver Slim Plate Straightener
Spectrum Brands, Inc.

Category: Health and Fitness
Subcategory: Personal Care

Type/Form
- Particle Size
- Conc. of Nano Ag
- Rate of Ag+ Release

Classification
Nano

Expected Lifetime

Is the use disperseve?
No

Use of Nanotechnology
"Nano-silver infused ceramic grill and handle to resist the growth of micro-organisms and deliver clean, beautiful shine."

Recommended Uses
Hair straightener.

Antimicrobial Claims
"Nano Silver is known for its antibacterial properties and promotes healthy hair and scalp. Nano Silver Technology unites microparticles of ceramic and silver for a unique combination of benefits that create smooth, silky hair."

Product Testing Information

Company web site: www.spectrumbrands.com
Company country: USA
Product web site: http://www.amazon.com/Remington-Nanosilver-Slim-

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
# Remington T-Studio Nano Hair Dryer

*Spectrum Brands, Inc.*

**Category:** Health and Fitness  
**Subcategory:** Personal Care  
**Number of associated products:** 1  
**This product uses:** N/A

## Product Info

<table>
<thead>
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<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
<th>-</th>
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</thead>
</table>

## Structure of Particle and/or Substrate

-  

## Synthesis Method

-  

## Use of Nanotechnology

"Nano-silver infused ceramic grill and handle to resist the growth of micro-organisms and deliver clean, beautiful shine."


## Recommended Uses

Hair dryer.

## Antimicrobial Claims

"Nano Silver is known for its antibacterial properties and promotes healthy hair and scalp. Nano Silver Technology unites microparticles of ceramic and silver for a unique combination of benefits that create smooth, silky hair."


## Product Testing Information

-  

**Company web site:** [www.spectrumbrands.com](http://www.spectrumbrands.com)  

**Company country:** USA

---

*Sources: All data are derived from internet searches. Source URLs are given where appropriate.*
Remington T-Studio Nanosilver Curling Iron
Spectrum Brands, Inc.

Category: Health and Fitness
Subcategory: Personal Care
Number of associated products: 3
This product uses: N/A

Product Info

<table>
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<table>
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<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
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<tbody>
<tr>
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<td>-</td>
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</tbody>
</table>

Notes

Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology
"Nano-silver infused ceramic grill and handle to resist the growth of micro-organisms and deliver clean, beautiful shine"

Recommended Uses
Curling iron.

Antimicrobial Claims
"Nano Silver is known for its antibacterial properties and promotes healthy hair and scalp. Nano Silver Technology unites microparticles of ceramic and silver for a unique combination of benefits that create smooth, silky hair."

Product Testing Information

Company web site: www.spectrumbrands.com
Product web site: http://www.amazon.com/Remington-Tstudio-

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate
Crystal Clear Nano Silver
Spirit of Ma'at LLC

<table>
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<tr>
<th>Category:</th>
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<tr>
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**Product Info**

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<td>Colloid</td>
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<th>Conc. of Nano Ag</th>
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<tbody>
<tr>
<td>2000 ppm</td>
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</tbody>
</table>

**Structure of Particle and/or Substrate**

A silver nano colloid.

**Synthesis Method**

- A colloid silver solution.

**Use of Nanotechnology**

A colloid silver solution.

**Recommended Uses**

To be taken 2 times per day or sprayed on the skin on problem areas.

**Antimicrobial Claims**

"In fact, they are so small that the Nano Silver acts like a gas in the blood system, killing bacterial pathogens and viruses without causing any harm whatsoever to our bodies."


**Product Testing Information**

"Testing Silver Against Anthrax: In 2001, the Illinois Institute of Technology Research Institute, one of the largest commercial laboratories in the United States, tested the efficiency of a 22 PPM colloidal silver product against anthrax spores. IIT reported that after six hours of exposure at body temperature (37 degrees celsius), the anthrax spores were 99% destroyed.

Big-Time Water Purification: The National Aeronautics and Space Administration researched 23 different methods of water purification and selected a silver system for the space shuttles. NASA, as well as half the world's airlines, uses silver filters to guard against water-born diseases.

Historically, What Was Silver Used For? Here, in alphabetical order, are a few of the more than 650 diseases against which colloidal silver is reputed to be effective: acne, AIDS, allergies, appendicitis, arthritis, athlete's foot, bladder inflammation, blood parasites, blood poisoning, boils, burns, cancer, candida, cholera, colitis, conjunctivitis, cystitis, dermatitis, diabetes (FN1), dysentery, eczema, fibrositis, gastritis, gonorhea, hay fever, herpes, impetigo, indigestion, keratitis, leprosy, leukemia, lupus, lymphangitis, Lyme disease, malaria, meningitis, neurasthenia, parasitic infections: viral, fungal and bacterial pneumonia, pleurisy, prostate, pruritus ani, psoriasis, purulent ophthalmia, rhinitis, rheumatism, ringworm, scarlet fever, septic conditions of the eyes, ears, mouth, and throat, seborrhea, septicemia, shingles, skin cancer, staphylococcus and streptococcus infections, stomach flu, syphilis, thyroid, tuberculosis, tonsillitis, toxemia, trachoma, all forms of virus, warts, whooping cough, yeast infection, stomach ulcer, canine parovirus and other veterinary uses, and fungal and viral attacks on plants (simply spray diluted silver on the leaves and add it to the soil)."


**Company web site:** spiritofmaat.com

**Product web site:** http://spiritofmaat.com/maatshop/n2_silver.htm

**Company country:** USA

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate.
### Nano-2+ Water Additive

*Spirit of Ma'at LLC*

**Category:** Food and Beverage  
**Subcategory:** Supplements  
**Number of associated products:** 1  
**This product uses:** N/A

### Product Info

<table>
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<tr>
<th>Type/Form</th>
<th>Particle Size</th>
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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
<td>-</td>
<td></td>
</tr>
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</table>

### Notes

**Structure of Particle and/or Substrate**

- 

**Synthesis Method**

- 

**Use of Nanotechnology**

"It has 85 trace minerals, 18 amino acids, 28 enzymes, and more."


**Recommended Uses**

Recommended dosage: “10 drops, 3 glasses/day.”


**Antimicrobial Claims**

- 

**Product Testing Information**

- 

**Company web site:** [spiritofmaat.com](http://spiritofmaat.com)  
**Company country:** USA  
**Product web site:** [http://spiritofmaat.com/maatshop/n2_nano2.htm](http://spiritofmaat.com/maatshop/n2_nano2.htm)  

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
# Professional Ceramic/Tourmaline Iron with Silver-Nano

**Category:** Health and Fitness  
**Subcategory:** Personal Care

**Number of associated products:** 1  
**This product uses:** N/A

## Product Info

<table>
<thead>
<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersive?</th>
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</thead>
<tbody>
<tr>
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<table>
<thead>
<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

## Notes

### Structure of Particle and/or Substrate
It contains nano silver with tourmaline on ceramic.

### Synthesis Method
-

### Use of Nanotechnology
It contains nano silver with tourmaline on ceramic hair iron plates.

### Recommended Uses
Hair iron.

### Antimicrobial Claims
"Silver-Nano - the best broad spectrum germicidal in existence, reduces airborne bacteria and kills known germs and viruses."


### Product Testing Information
-

**Company web site:** www.adamsphere.com  
**Company country:** USA

**Product web site:** www.adamsphere.com

---

*Sources: All data are derived from internet searches. Source URLs are given where appropriate*
Cyclic Nano Silver Cleanser
Total Venture Marketing (TVM), Inc.

Category: Health and Fitness
Subcategory: Cosmetics
Number of associated products: 6
This product uses: N/A

Product Info

<table>
<thead>
<tr>
<th>Type/ Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use dispersese?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>1-10 nm</td>
<td>Colloid</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Structure of Particle and/or Substrate

"Silver Colloid Properties
It is a neutral aqueous solution, a structure of silver particles under 10nm combined with Si02 of 10~20nm or edible gelatin, which disperses in water uniformly and stably. "

Ingredients: Nano Silver, Silica, Collagen, Sericin, Chitosan, Vitamins C, D, & E, Aloe

Synthesis Method

Use of Nanotechnology
Nano colloidal silver is used in conjunction with other ingredients to produce a soap.

Recommended Uses
- Pink: Normal & Sensitive Skin
Pink is Cyclic with extra Collagen, so it's better suited for those with normal to sensitive skin and those wishing to experience collagen's age spots and wrinkle fighting effects.
- Silver: Normal & Oily Skin
Silver is Cyclic with extra Nano Silver, so those with normal to oily skin who have acne or other skin problems can better utilize this leading-edge cleanser.


Antimicrobial Claims

"Characteristics of Silver Colloid as an Anti-Bacterial Agent
2. Safe for the body.
4. Excellent durability with functionality.
5. No bacterial resistance which causes skin problems.
6. Widespread bacterial killing spectrum.
7. Excellent cleansing effect with nano particle penetration.
8. Differentiation of applied area.
(Previous liquid organic compounds were harmful to the body. High-density inorganic compounds are rare.)"

"Nano Silver
# Naturally occurring antibiotic effect
# Kills all bacteria and germs within 6 minutes of contact
# Also kills fungi"


Product Testing Information

Company web site: www.nanocyclic.com
Product web site: N/A

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
I-Tex "Silver Nano" - Anti Bacterial Polo-Shirt

United Textile Mills Co., Ltd.

Category: Health and Fitness
Subcategory: Clothing
Number of associated products: 2
This product uses: N/A

Product Info

<table>
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<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Nano</td>
<td>No</td>
</tr>
</tbody>
</table>

Structure of Particle and/or Substrate

Synthesis Method

Use of Nanotechnology

The nano silver is listed under “Special Treatment & Finish,” therefore it could be assumed that the nano silver is coated onto the fabric, but they do not make this claim.

"Successfully, Metallurgy and Material Science Research Institute (MMIR), Chulalongkorn University (CU) and United Textile Mills Co., Ltd. has makes its path for the new sport wear."


Recommended Uses

Polo shirt. "This technology will improve the lifestyle of the active and busy people."


Antimicrobial Claims

"It is an active sport wear designed for the future lifestyle, the “Silver Nano” Technology will prevent the growth of bacterial and unpleasant odor, black spot, deteriorated fiber including harmful disease."


Product Testing Information

Company web site: www.unitedtextilemills.com
Product web site: http://www.unitedtextilemills.com/index.asp#

Company country: Thailand

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Advanced Colloidal Silver
Utopia Silver Supplements

Category: Food and Beverage
Subcategory: Supplements

Number of associated products: 1
This product uses: N/A

Product Info

<table>
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<tr>
<th>Type/Form</th>
<th>Particle Size</th>
<th>Classification</th>
<th>Is the use disperseve?</th>
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</thead>
<tbody>
<tr>
<td>Liquid</td>
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<td>Colloid</td>
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<table>
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<tr>
<th>Conc. of Nano Ag</th>
<th>Rate of Ag+ Release</th>
<th>Expected Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 ppm</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>

Notes

Structure of Particle and/or Substrate
It contains 0.9999 pure silver in de-ionized water.

Synthesis Method
As a colloidal silver in de-ionized water.

Use of Nanotechnology
As a colloidal silver in de-ionized water.

Recommended Uses
"Dietary Supplements only."

Antimicrobial Claims
"Works: Silver inhibits the growth of one-celled organisms, (such as bacteria and viruses) by deactivating the organism's oxygen metabolism enzymes. In turn, this destroys its' cell membranes, stopping the replication of its' DNA."

Product Testing Information
CoorsTek Analytical Laboratory Lab No. 2k6-0360 Date May 15, 2006. Samples analysed on the AtomScan25 ICP-OES for concentrations.

Company web site: www.utopiasilver.com
Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate
Silver Aloe Skin Care Bar
Utopia Silver Supplements

Category: Health and Fitness
Subcategory: Personal Care
Number of associated products: 1
This product uses: Advanced Colloidal Silver

Product Info

<table>
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<tbody>
<tr>
<td>Solid</td>
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<td>Colloid</td>
<td>Yes</td>
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<tr>
<td>Conc. of Nano Ag</td>
<td>Rate of Ag+ Release</td>
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<td></td>
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</table>

Structure of Particle and/or Substrate
It contains "0.9999 silver in pure de-ionized water" and "no gelatins or animal products."
List of ingredients: Advanced Colloidal Silver, Plant Derived Minerals, Aloe Vera, Essential Oils, Sodium Cocosate, Sodium Palmate, Castor Seed Oil, Safflower Seed Oil, Glycerin, Sorbitol, Sorbitan Oleate, and Glycerin Soja.

Synthesis Method
Colloidal silver in de-ionized water.

Recommended Uses
"Great for Skin, Scalp and Hair!"

Antimicrobial Claims
It is "fortified with the anti-bacterial action of Colloidal Silver, the regenerative qualities of Plant Derived Minerals and the healing properties of Aloe Vera."

Product Testing Information
CoorsTek Analytical Laboratory Lab No. 2k6-0360 Date May 15, 2006. Samples analysed on the AtomScan25 ICP-OES for concentrations.

Notes

Sources: All data are derived from internet searches. Source URLs are given where appropriate.
Soothing Silver Gel
Utopia Silver Supplements

**Category:** Health and Fitness  
**Subcategory:** Personal Care

**Type/Form**
- Liquid

**Conc. of Nano Ag**
- 

**Particle Size**
- 

**Rate of Ag+ Release**
- 

**Classification**
- Colloid

**Expected Lifetime**
- 

**Is the use disperseve?**
- Yes

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**Structure of Particle and/or Substrate**
It contains colloidal silver and plant-based ingredients, including Aloe Vera Gel and Grapefruit Seed Extract.

**Synthesis Method**
- 

**Use of Nanotechnology**
Colloidal silver is used with other ingredients to make a gel.

**Recommended Uses**
"Soothing Silver Gel is designed for easy application and lasting effectiveness, and can be used for all types of irritated or damaged skin. It can promote rapid healing with less scar tissue."

**Antimicrobial Claims**
- 

**Product Testing Information**
- 

**Sources:** All data are derived from internet searches. Source URLs are given where appropriate
PlasmaWave™ Air Cleaners
Winix Inc.

Category: Appliances
Subcategory: Heating, Cooling and Air

Number of associated products: 4
This product uses: N/A

Product Info

Type/Form | Particle Size | Classification | Is the use dispersive?
--- | --- | --- | ---
Solid | NA | Nano | No

Conc. of Nano Ag | Rate of Ag+ Release | Expected Lifetime
--- | --- | ---
- | - | -

Notes

Structure of Particle and/or Substrate
-

Synthesis Method
-

Use of Nanotechnology
"Nano-Silver Mesh" is used in the filtration system.

Recommended Uses
Air cleaning system.

Antimicrobial Claims
"Step 3: Nano-Silver Mesh
A shield of silver particles one billionth of a meter in size neutralizes bacteria on contact."
"Throughout history, silver has been recognized as one of the most efficient germicides known. While an antibiotic can kill as many as a half-dozen different kinds of disease organisms, silver is known to kill some 650 species of bacteria or viruses simply by coming into contact with them."

Product Testing Information
-

Company website: www.winixinc.com
Product web site: http://www.winixinc.com/ac_9000.html

Company country: USA

Sources: All data are derived from internet searches. Source URLs are given where appropriate.