

SIRR

The ultimate
antimicrobial
protection

powered by



pure silver

SIRRR

The image features a vibrant blue background with several abstract elements. A large, semi-transparent light blue circle is positioned in the upper left quadrant. A dotted line, composed of small light blue circles, curves across the top and right sides of the frame. In the lower right, there is a lighter blue, semi-transparent curved shape. The word "SIRRR" is written in a large, bold, light blue font, centered diagonally across the image. To the left of the text, there is a cluster of seven small, solid light blue circles of varying sizes.



The ultimate antimicrobial protection

The SIRR range of products is an exclusive, new range of antimicrobial products formulated using N9 Pure Silver™ technology.

N9 Pure Silver™ is the first of a new generation of fully patented silver antimicrobial technologies. This breakthrough technology delivers outstanding long lasting antimicrobial performance combined with impeccable environmental credentials.

N9 Pure Silver™ is a pure metallic silver in ultra-pure de-ionized water. The actual silver loading in each gram of N9 Pure Silver™ is incredibly low. However, the configuration of the individual N9 Pure Silver™ particles makes them highly effective at deactivating bacteria and other microbes, even with this low silver loading.

The logo for N9, consisting of the letters 'N9' in a white, rounded, sans-serif font. The logo is centered within a large, abstract graphic composed of several overlapping, semi-transparent circles in shades of teal, green, orange, and grey. A dotted line of small blue and grey dots curves around the bottom and right sides of the graphic.

N9



SIRR powered by N9 Pure Silver™

How it works

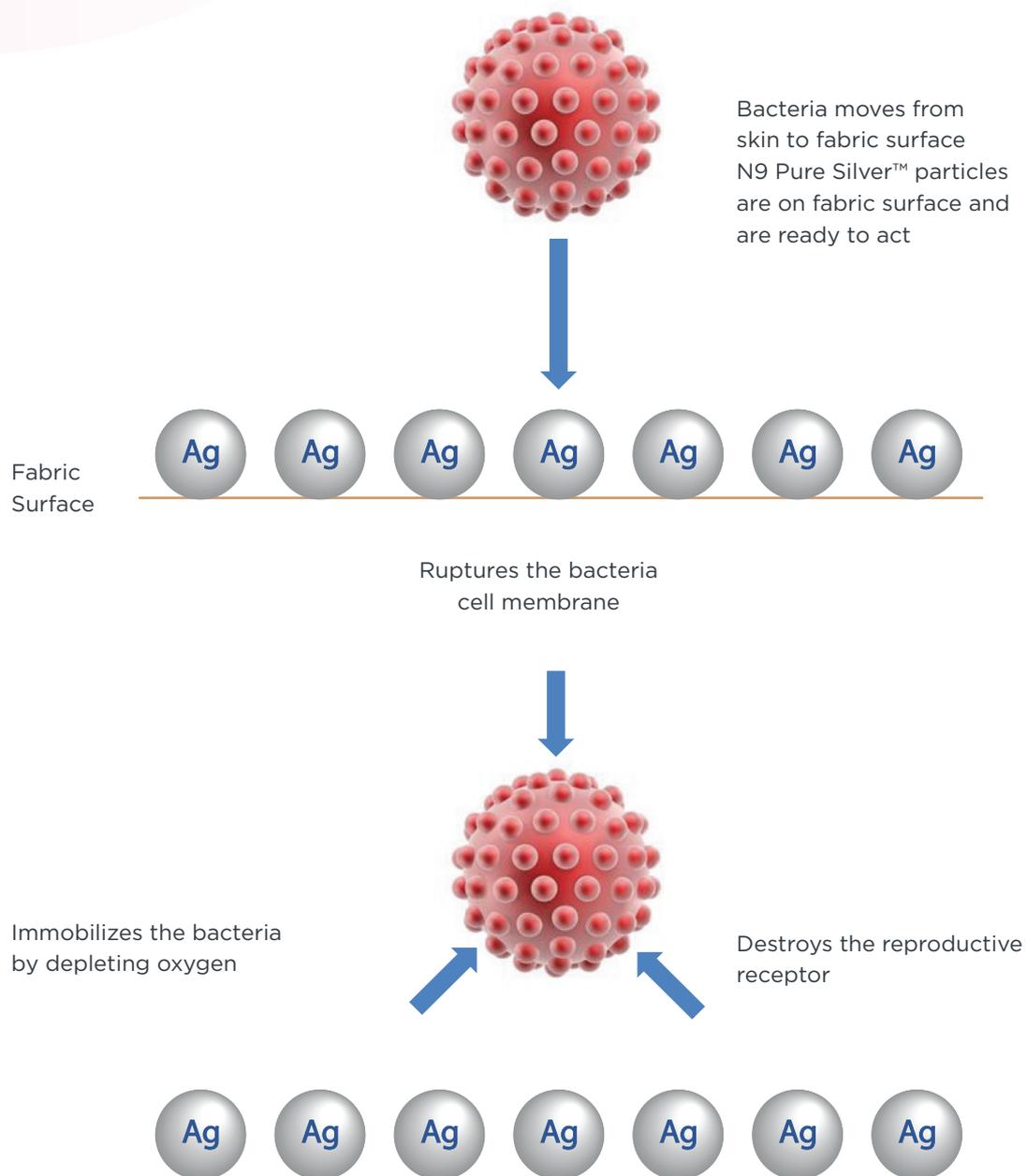
N9 Pure Silver™ is non-leaching. It remains intact on the treated surface and works where needed to protect the treated article. The rate of silver ion generation from N9 Pure Silver™ is very low as it is not an ionic silver. This means that there is minimal loss of silver into the environment or on to skin. N9 Pure Silver™ is bacteriostatic and gently defensive. It stays on the surface to which it is applied and protects that surface against “bad” bacteria, without affecting the skins natural balance.

How does N9 Pure Silver™ work?

N9 Pure Silver™ works in 3 different ways:

- Immobilising the bacteria by depleting oxygen
- Rupturing the bacterial cell membrane
- Destroying the reproductive receptor

The ultimate antimicrobial protection



Silver ion generation is very low and happens only when the silver is in contact with bacteria "on demand release"



Performance

- Tested against a wide range of microbes, bacteria, fungi and other allergens
- Effective on different substances, textiles, paper and plastics
- Effective on different fabric types: pure cotton, synthetics and blends. Particle's large surface area allows optimum contact making N9 Pure Silver™ highly effective at deactivating microbes
- Tested under typical exhaust and padding conditions - with and without traditional finishes
- Tested under the most stringent conditions, following internationally recognised test protocols



The ultimate antimicrobial protection

Exhaust application onto textiles

Effective against bacteria and fungus. Proven performance lasting 50 washes+



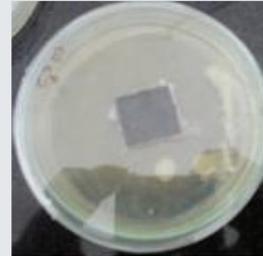
Bacteria growing on control (untreated)



Fungus growing on control (untreated)



Protected with N9 Pure Silver™
Fabric stays black =
Bacteria free



Protected with N9 Pure Silver™
Fabric stays black =
Fungus free

White bacteria/fungus grows around the square of treated fabric (where there is no N9 Pure Silver™).
The **fabric** itself shows **no growth**.



Safety

- N9 Pure Silver™ is non-leaching and strongly binding: remains intact on the treated substrate and works where needed to protect it
- Bacteriostatic and gently defensive: protects textiles against bacteria without affecting the natural skin balance. (Bacteriocidals seek and kill all bacteria.)
- Dermatologically tested

Gentle on the Environment

N9 Pure Silver™ contains minimal silver loading. Designed to 'hook' onto surfaces. Extremely low amount of silver is released, even after multiple washes. Excellent aquatic toxicity.

Generates extremely low levels of silver ions

Proven to be completely non-leaching; no zone of inhibition.

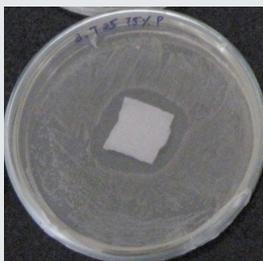
The ultimate antimicrobial protection

New generation Metallic Particulates combine low silver loading with low release of silver through wash.



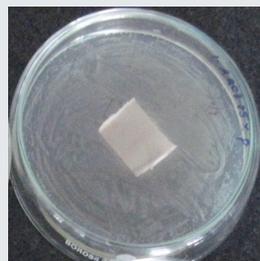
New generation silver chemistry combines low silver loading with very low silver ion release.

With zone of inhibition



Silver chloride based antimicrobials show a zone of inhibition, due to Ag⁺ formation or release of loosely bound silver particles.

No zone of inhibition



N9 Pure Silver™ shows no zone of inhibition: it is non-leaching has negligible Ag⁺ generation and very low release silver.



SIRR Antimicrobial Spray

SIRR Antimicrobial Spray powered by N9 Pure Silver™ offers the ultimate protection against a wide spectrum of germs and bacteria. SIRR Antimicrobial Spray not only kills germs but also works to neutralize bad odours and leaves a fresh, clean scent wherever it is sprayed.

SIRR Antimicrobial Spray is perfect for use in mosques and on prayer mats where germs may be passed on by different people using the same mats. Outside the mosque, in shops, railway stations, hospitals or homes and wherever else prayer mats are deployed, the mats will be bacteria free, odour free and have a pleasant scent.

SIRR Antimicrobial Spray can be customized with different scents to enhance the consumer experience with the product. Sandalwood, oudh, rose and jasmine are amongst the wide range of scents available.

SIRR Antimicrobial Spray can be used on all sorts of textiles and hard surfaces including floors, mats, carpets, tents and mattresses.

A large, stylized version of the SIRR logo is centered at the bottom of the page. The letters "S", "R", and "R" are in a light grey color, while the letter "I" is a vibrant blue. Above the "I" is a cluster of blue dots of varying sizes, mirroring the design in the top-left logo. The background of the bottom section features a blue gradient with a trail of small, light blue dots curving upwards from the bottom left corner.

SIRR

The ultimate antimicrobial protection

SIRR for Textiles

- Easily applied through standard finishing processes – exhaust and padding
- No special equipment required
- Can be applied in combination with other textile finishes
- Does not affect colour or feel; whites remain white, brights remain bright
- Product is extremely wash durable and will last through multiple washes (100+)

SIRR for Paper

The unique properties of N9 Pure Silver™ make it the perfect additive to print coatings to give antimicrobial protection to magazines, books, catalogues and brochures.

Ease of use, combined with its non-migrating properties, even when in contact with moisture, and the fact that it does not discolour white paper have led to an increase in demand for N9 Pure Silver™ in printed matter.

N9 Pure Silver™ is widely used in travel magazines in the travel industry. In a survey on attitudes to hygiene, conducted in 2013, over 50% of respondents said they will never pick up and read a second hand magazine. By contrast, 89% said they would be more likely to read a second-hand copy if it had been treated against germs.

N9 Pure Silver™ is easily added to any varnish, coating emulsion, sealer or silicone, making it ideal for all sorts of print applications.

SIRR powered by N9 Pure Silver™ has been approved as Halal by the United Kingdom HMC Authority.