

CERTAINTY™ Antimicrobial Technology Fact Sheet

The technology

- Strategic Partners, Inc. (SPI) has developed the next generation of medical apparel featuring its CERTAINTY™ antimicrobial technology, which reduces, inhibits and minimizes the growth of bacteria on garments.
- The antimicrobial technology in CERTAINTY delivers silver ions to fabric surfaces and activates them in the presence of the undesirable bacteria.

How it works

- When the undesirable bacteria come into contact with CERTAINTY-treated fabrics, the growth of the bacteria is disrupted and the bacteria are continually reduced.
- Additionally, the treated fabrics help ensure that unpleasant odors, decay and discoloration don't occur in fabrics by preventing bacteria from forming or growing.

Benefits of the technology

- On a daily basis, many healthcare professionals are exposed to unwanted bacteria on their clothing. CERTAINTY antimicrobial technology can provide more fabric protection on the scrubs, giving healthcare professionals the freedom to perform their duties in comfortable, fashion-inspired clothing.
- CERTAINTY antimicrobial technology provides:
 - Garment (fabric) protection
 - Protects treated garments from incubating thousands of unwanted bacterial loads from a day's work shift.
 - Fit protection
 - Excessive bacteria loads in scrubs can lead to premature loss of scrub quality – antimicrobial treated scrubs are built to last and withstand the rigors of healthcare professionals.
 - Protection against unpleasant odors and/or musky odor buildup
 - Next to fit, odor control is the second leading feature sought after in apparel and scrubs.

A trusted option

- Silver ions are a trusted antimicrobial agent used for more than 2,000 years.
- Among several key ingredient providers, SPI has worked with Dow Chemical Company to successfully incorporate its SILVADUR™ technology into the CERTAINTY-treated fabrics.
- Dow has performed extensive testing for skin sensitivity by testing the raw ingredient (which is required by the EPA) and the treated article, which showed no unwanted effects from the treatment at 7x the recommended level.
- SILVADUR-treated uniforms are non-sensitizing and non-irritating to humans. The active ingredient in SILVADUR is essentially fixed to the textile surface and will not impact the good bacteria on skin.

- SILVADUR™ antimicrobial technology has been assessed as harmless to human health and added to the list of active chemical products by the International Oeko-Tex® Association.¹
- SILVADUR is registered with the U.S. Environmental Protection Agency (EPA) and its active ingredient is notified and supported under the EU BPD.²

Long lasting

- SILVADUR uses a unique polymer delivery system of silver ions at the surface of the fabric, where other silver technologies use a particle or nanoparticle approach. This provides better, more durable protection that is environmentally sustainable.
- CERTAINTY™ is designed to stand up to real life wear.

###

¹ The Oeko-Tex® Association is a union of 16 renowned institutes for textile research and testing in Europe and Japan with representation in 60+ countries.

² The EU BPD is the European Union Biocidal Products Directive regarding the placement of biocides on the market.