



Anti-microbial protection

AMV Shield

Passive protection of surfaces is a vital part of achieving a consistent defense against the spread of infection. Trelleborg's AMV Shield system uses specially prepared silver particles to embed anti-microbial nano particles into the very fabric of our polyurethane materials, providing long-lasting, continuous protection from a wide variety of pathogens.

Trelleborg's AMV Shield system offers exceptional anti-viral, anti-bacterial, anti-fungal and anti-mold properties, reducing bacteria by up to 99.9%, protecting against viruses such as H1N1 and demonstrating a reduction of 90% against Feline Coronavirus; a suitable surrogate from the same family as the human coronavirus strain SARS-CoV-2, and reducing MRSA antibiotic resistant bacteria by up to 99.9%.

By utilizing a method of integration which ensures the anti-microbial silver nano particles are securely embedded, we ensure materials made using the AMV Shield system do not leach into the environment, meaning they maintain efficacy for over 25 years and are able to be used in food packaging and distribution.

With a dedicated R&D and design team, Trelleborg is able to customise a range of polyurethane materials to ensure easy to install, 'fit-and-forget' solutions to meet specific applications and individual project requirements. As a polyurethane centre of excellence, Trelleborg Applied Technologies can manufacture anti-microbial polymeric products that provide superior performance.

Benefits

- Outstanding anti-microbial activity
- Up to 99.9% bacteria reduction
- Up to 99.9% virus reduction
- By securely integrating the anti-microbial nano particles within the polymer, our materials do not leach into the environment
- Food contact approved materials available
- HACPP (Hazard Analysis and Critical Control Points) approved
- Robust, high endurance materials
- Long term cost-effective solution
- Any colour can be created to match specific colour schemes

Applications

AMV Shield is suitable for a wide range of industries, with diverse applications from contact surfaces including grab rails and handles, to food packaging and boxes, protective covers and casings, floor squeegees for healthcare environments and everything in between. As part of Trelleborg's ongoing commitment to better sustainability, the AMV Shield system can also be integrated into a recyclable thermoplastic polymer.

Customization

AMV Shield can be customized to meet specific application and project requirements. Due to the unique nature of the silver nano particles and the method of integration into our polymeric systems, we can manufacture solutions suitable for a wide range of challenging environments. Our solutions can be created in any colour to match specific colour schemes and environments.

Common microbes AMV Shield protects against*:

- MRSA
- Influenza A H1N1
- VRE
- Feline Coronavirus (FCoV)
- C-Diff
- E. Coli
- Legionella pneumophila
- Listeria
- Salmonella
- Staphylococcus
- Campylobacter

*A full list of microbes is available on request.



Contact Us

Trelleborg Applied Technologies delivers innovative and reliable solutions, materials and smart systems that maximizes performance for our customers. Our dedicated and highly skilled staff are always on hand to provide seamless process support from initial idea, through to delivery and beyond.



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