Heraeus

Precious Metals

The superior antimicrobial technology against bacteria, viruses and all other microorganisms.

What are the advantages of AGXX?

Broadband antimicrobial effect
- Fast and comprehensive killing of a wide range of microorganisms

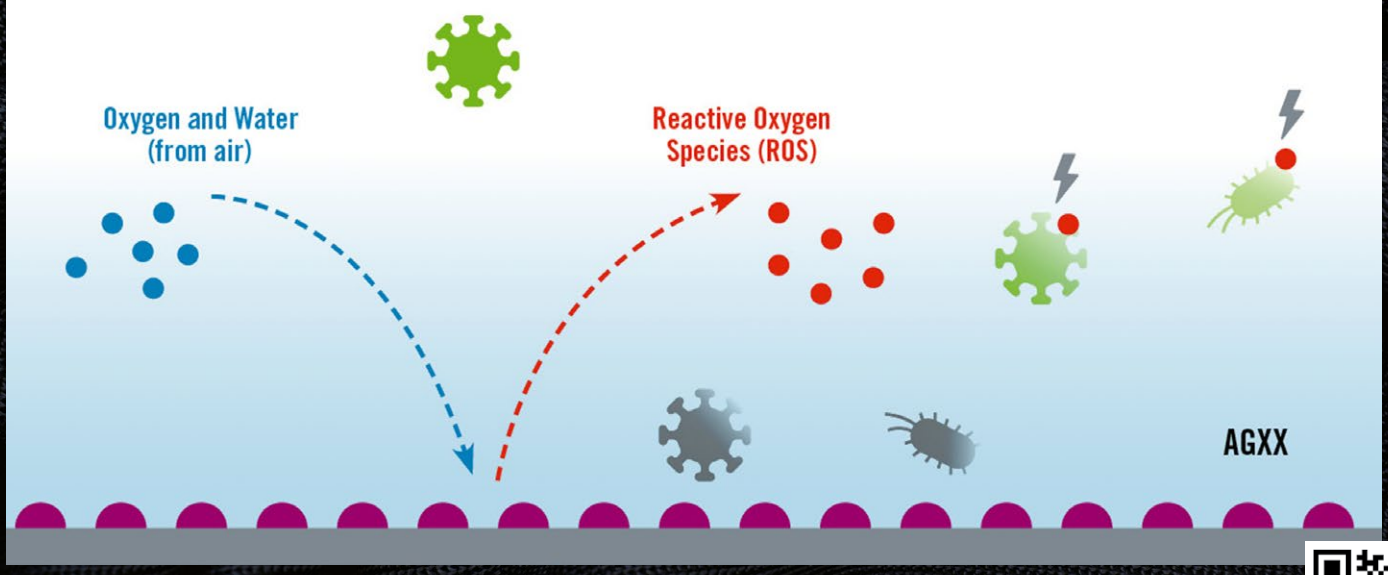
Long lasting
- Mechanism of action is **not** based on the release of substances

Active substance generated from water and oxygen
- Catalytically generated reactive oxygen species kill microorganisms

Wide range of use
- Regulatory approval in progress for various product types
- AGXX can already be used in accordance with the Biocidal Products Regulation (BPR) today

No development of resistances
- Effective against MRSA and silver-resistant *E. coli*

How does AGXX work?



For more information visit our website www.herae.us/agxx or contact us directly: agxx@heraeus.com

AGXX in Textiles

AGXX Product Portfolio

Various types and forms

- AGXX particles are available in various types and forms as well as different carrier materials, offering a variety of particle sizes and surface areas.

Designed for textile applications

- AGXX particles can be integrated in different types of textile materials, including textile coatings and finishings as well as textile fibers, e.g. made from lyocell or PA6 materials.

DITF
DEUTSCHE INSTITUTE FÜR TEXTIL+FASERFORSCHUNG

Publicly funded project with DITF

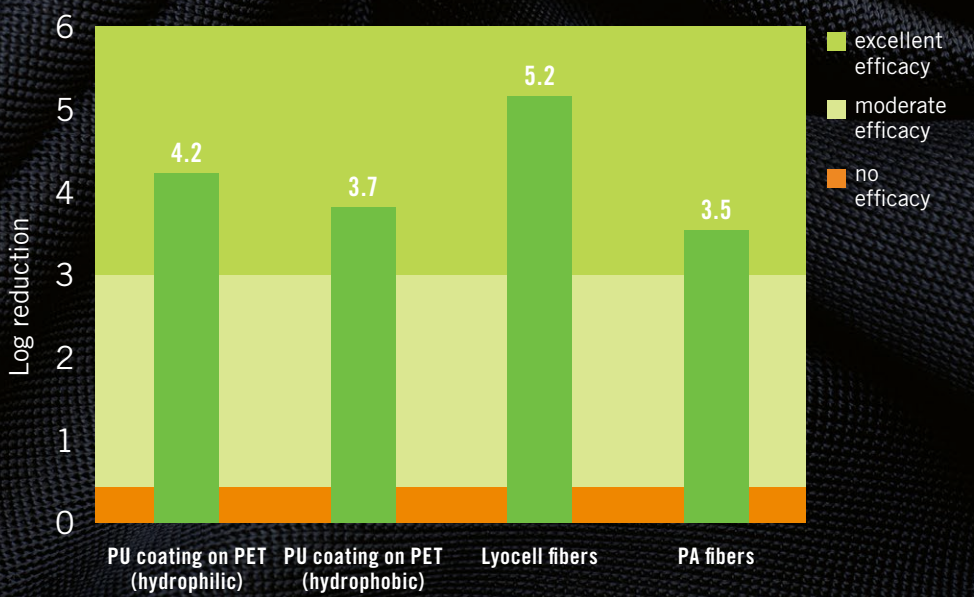
- In a publicly funded project, Heraeus and DITF jointly develop and optimize possibilities for AGXX incorporation in textile fibers, coatings, and finishings.

Antimicrobial Activity of AGXX in Textiles

Antimicrobial testing according to ISO norms at DITF, TITK and QualityLabs

- ISO 22196 and ISO 20743 tests are used to quantitatively proof the efficacy of materials against bacteria.
- AGXX incorporated in textile coatings, lyocell fibers or PA6 materials shows excellent antibacterial efficacy.
- Log reduction shows decrease of bacteria numbers in comparison to AGXX-free materials.

ISO 22196 or ISO 20743 Tests with AGXX-modified Textile materials against *S. aureus*



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