



TECHNOLOGY DESCRIPTION

AGXX is an innovative antimicrobial technology that works in a fundamentally different way than all conventional biocides, especially silver technologies. The technology is based on a catalytic reaction triggered by the interaction of two precious metals. In this process, oxygen is converted into reactive oxygen species (ROS) in the presence of air humidity. The ROS kill all types of microorganisms by first destroying their outer membranes and then the organelles and DNA of the microorganisms.



INNOVATIVE ASPECTS

Due to AGXX's innovative working mechanism based on a catalytic reaction rather than the release of metals or other harmful substances, the antimicrobial technology offers a variety of benefits:

- Active substance generated from water and oxygen
- Long-lasting efficacy and high chemical and thermal resistance
- Broadband antimicrobial effect: rapid and complete killing of a wide range of microorganisms
- Successfully tested against more than 130 microorganisms (viruses, bacteria, algae and spores)
- No resistance possible
- Easy incorporation into a wide range of materials



TECHNOLOGY READINESS (in space application)

TRL 7-8 (2024)

COUNTRY OF ORIGIN

Germany

LATEST UPDATE

06/2024

TAGS #antimicrobial #catalytic #long-lasting #coating #virus #bacteria

APPLICATION AREAS

Energy Health Chemical Engineering & Biotechnology Food & Agriculture Consumer Products Safety & Security Tourism

SPACE
FOR BUSINESS
BUSINESS
FOR SPACE

TECH CARD

