

The network partners

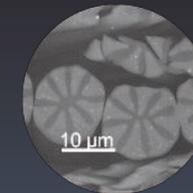
The Network NanoSilver has been cooperating since June 2011. From 2011-2014, it was partially funded by the German Federal Ministry for Economic Affairs and Energy (BMWi) in the framework of the Central Innovation Program SME (ZIM). Since 2015, it is self-financed. It comprises of small and medium-sized partner companies that are supported by partner research institutions. The network is managed by Nanoinitiative Bayern GmbH.



Core competences of the network

- Synthesis and production of nano silver
- Coating techniques
- Antimicrobial treatment of textiles
- Medical technology and packaging
- Analytics, exposition and function analysis
- Statutory rules, standardisation

Responsible development of nanosilver products



Targeted further development



Careful risk analysis



Comprehensible information transfer



Initiation and Realisation of R&D projects

Become one of our partners!

Network NanoSilver / Nanoinitiative Bayern GmbH

Josef-Martin-Weg 52
97074 Würzburg
Germany
Phone: +49 931 31 - 89371
Fax: +49 931 31 - 80569
E-Mail: info@nanosilber.de
Internet: www.nanosilber.de

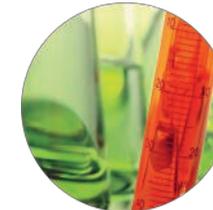
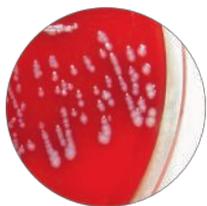












The technical potential of nano silver

The element silver is outstanding by its unique properties that are more pronounced in the nanoparticulate form than in the bulk material. Therefore, much smaller amounts of nano silver are sufficient in order to achieve the same effect.

The unique properties include, in particular, high thermal and electrical conductivity as well as the naturally antimicrobial effects of released silver ions. This opens up important fields of application ranging from flexible displays to antimicrobial equipment of hospital textiles, wound dressings and wall panels.

In composite materials, nano silver wires increase the electrical conductivity. Small amounts of silver nanowires are sufficient. The advantage is that the transparency of the materials is not affected. Furthermore, the extraordinary optical properties can be used in sensors or spectroscopy.

Economic potential of nano silver

Current market studies forecast a good growth from 700 Million \$ in 2014 to 2.4 Billion \$ in 2023 for the nano silver market. The greatest opportunities are in the area of conductivity. Good opportunities are, however, also in antimicrobial medical applications and consumer goods.

Safe further development of nano silver

For us, the unbiased examination of the opportunities and risks of nano silver is important in the entire product lifecycle. In order to tap the full potential of nano silver and address open questions concerning possible risks, we are particularly committed to the responsible planning of R&D projects. Our focus is the rational and reasonable application of the material. The goal is developing products that offer an additional benefit for the customer while ensuring high product safety. Exemplary R&D&I projects and projects of the network:

- Conductive, transparent sol-gel coatings
- Modification of the silver nanowire surface
- Practicality and benefit of antimicrobial textiles in care situations
- Antimicrobial properties of wall panels in hospital operation
- Antimicrobial properties of recooling systems

If you are interested in R&D cooperation please do not hesitate to contact us. We are pleased to meet you.

Innovations by networking

The technical potential of nano silver is spanning various classes of business. The network offers strong partners with outstanding expertise in their respective specialist field. The center of the network activities is the open exchange with the network partners.

The partners are supported by a professional network management that takes care of the administrative tasks. In addition, it provides comprehensible information on recent insights and achievements.

As a network partner, you will receive the following services:

- Organisation of expert and status meetings
- Operation and continuous update of our homepage www.nanosilber.de
- Research and distribution of a newsletter, three times a year
- Assessment and targeted forwarding of cooperation inquiries
- Assistance in public relations