

The network partners

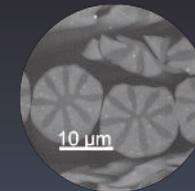
The Network NanoSilver has been cooperating since June 2011. From 2011-2014, it was partially funded by the German Federal Ministry for Economic Affairs and Energy (BMWi) in the framework of the Central Innovation Program SME (ZIM). Since 2015, it is self-financed. It comprises of small and medium-sized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

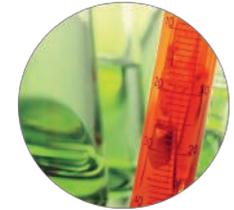
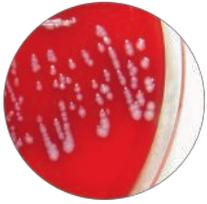


Initiation and Realisation of R&D projects

Become one of our partners!

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The technical potential of nano silver

Silver is outstanding by its unique properties, which are even more pronounced in the nanoparticulate form than in the bulk material. With increasing surface area per unit volume, far fewer quantities of nano silver are needed to achieve the same effect, allowing a reduction in total silver loading.

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

In composite materials, even small amounts of nano silver wires do increase the electrical conductivity, enabling transparent conductive materials. Furthermore, these extraordinary optical properties can be used in sensors and for spectroscopy.

Economic potential of nano silver

Current market studies forecast a good growth from 1 Billion \$ in 2016 to 3.3 Billion \$ in 2024 for the nano silver market. The greatest opportunities are in the area of conductivity, in antimicrobial medical applications and in 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 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