

May 22, 2024

## Notice Regarding Development of Silver Nanoparticle Production Technology

Admatechs Company Limited (“AMT” President: Osamu Nakano) announced the joint development with Toyota Motor Corporation (“TMC” President: Koji Sato) of silver nanoparticles that can be applied to bonding materials and printed electronics materials, and the start of sample provision and small volume sales.

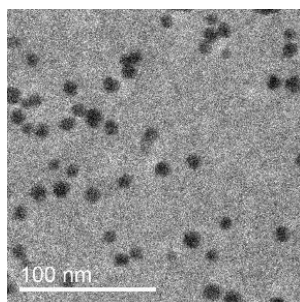
Adapting the technologies of both companies\*, we have resolved quality and productivity issues, enabling rapid and cost-effective production of small, uniform silver nanoparticles. The developed product can be sintered at lower temperatures than conventional products, and is expected to be adapted as a bonding material for power electronics devices, LEDs, and thermoelectric devices, as well as for circuit formation and electrode materials in printed electronics.

In addition, CO<sub>2</sub> emissions during manufacturing and use can be significantly reduced, contributing to the SDGs and Net-Zero Emissions Procurement.

We will proactively propose the development of a wide variety of applications, aiming to solve social issues and contribute to a sustainable industrial society.

Details will be presented at the exposition of TMC at “Automotive Engineering Exposition 2024 YOKOHAMA” which will be held at Pacifico Yokohama from Wednesday, May 22 to Friday, May 24, 2024, and at “Automotive Engineering Exposition 2024 NAGOYA” which will be held at Aichi Sky Expo from Wednesday, July 17 to Friday, July 19, 2024.

\* TMC: Nanoparticle production technology using microwave  
AMT: Purification and dispersion technology for nanomaterials



Transmission electron microscope image of silver nanoparticles

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