



COPPER

Nano Dispersion

Anti COVID19



Stock No: NS6130-10-1521

COPPER

Nano Dispersion

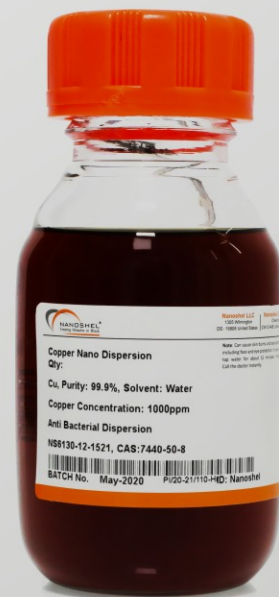
Anti COVID19

Copper Dispersion has other unique magnetic and super hydrophobic properties. These nanostructures show very promising applications in heterogeneous catalysis in the complete conversion of hydrocarbons into carbon dioxide, enhancement of thermal conductivity of nanofluids, nanoenergetic materials, and super-hydrophobic surfaces or anode materials for lithium ion batteries. Copper nanoparticles dispersions have unique optical and semiconductor properties allowing the application of copper oxide nanoparticles in

many industrial applications. Copper dispersions have unique optical and semiconductor properties allowing the application of copper oxide nanoparticles in many industrial applications. Controlling the size and morphology of the nanoparticles enables tunability of these properties. The major methods of synthesizing copper oxide nanoparticles dispersions involve one phase in either a batch or continuous flow reactor.

Quick FACTS

Product	: Copper Nano Dispersion
Stock No	: NS6130-10-1521
CAS	: 7440-50-8
Color	: Brown Form
Foam	: Liquid



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APPLICATIONS

- ✓ Fixtures and Sinks produced with Antimicrobial Copper are attractive, safe to use and never wear or wash away.
- ✓ Extensive laboratory testing has shown that when cleaned regularly, sinks and other products made from Antimicrobial Copper:
 - ✓ Kills bacteria more than 99.9% * within 2 hours, and continues to kill 99% of bacteria* even after repeated recontamination.
 - ✓ Delivers continuous and ongoing antibacterial action, killing more than 99.9% of bacteria* within 2 hours

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Citing Of Nanosilver For Use As Antibacterial Agent

Silver is a soft and shiny transition metal which is known to have the highest reflectivity of all metals. Among its many useful properties, silver is recognized to have antimicrobial activity. Silver is known to be biologically active when it is dispersed into its monoatomic ionic state (Ag^+), when it is soluble in aqueous environments. This is the same form which appears in ionic silver compounds such as silver nitrate and silver sulfadiazine, which have been frequently used to treat wounds. Another form of Silver is its native Nanocrystalline form (AgO). The metallic (AgO) and ionic forms can also appear loosely associated with other elements such as oxygen or other metals and can form covalent bonds or coordination complex Silver nanoparticles to other household objects with frequent handling such as keyboards, bath safety aids, and bathroom safety handle. Special stand-alone products such as containers for meat or water/wine/milk storage are useful applications where bacterial contamination may present a health issue.

References for Silver Nanodispersion

- ✓ Institute of Construction Technologies, National Research Council, I-35127 Padova, Italy; NePCM Based on Silver Dispersions as Stable Solution for Thermal Storage:
- ✓ Department of Physics, Faculty of Science, Universiti Putra Malaysia (UPM), 43400 Serdang, Malaysia Silver Nanoparticles Dispersed in Various Aqueous Media Using Laser Ablation. M. Tajdidzadeh, B. Z. Azmi, W. Mahmood M. Yunus, Z. Abidin Talib, A. R. Sadrolhosseini, K. Karimzadeh, S. A. Gene, and M. Dorraj
- ✓ Department of Chemical Engineering and Laboratory for Laser Energetics, 206 Gavett Hall, University of Rochester, Rochester, New York Narrowly Dispersed Silver Nanoparticles Using a Single-Source Precursor. Xue Zhang Lin, Xiaowei Teng, and Hong Yang
- ✓ Mendeleev University of Chemical Technology, Miusskaya pl. 9, Moscow, 125047 Russia Silver metal nanodispersions using Tollens reagent. K. I. Kienskaya, K. Yu. Sigal, E. V. Il'yushenko, A. A. Kuzovkova, O. V. Yarovaya & V. V. Nazarov Colloid
- ✓ National Institute of Standards and Technology (NIST), Gaithersburg, Maryland, USA Dispersion stabilization of silver nanoparticles in synthetic lung fluid studied under in situ conditions, ROBERT I. MACCUSPIE, ANDREW J. ALLEN, & VINCENT A. HACKLEY Materials Science and Engineering Laboratory
- ✓ Vietnam Academy of Science & Technology. Silver nanoparticles their characterization and biomedical application, Rupali S Patil, Mangesh R Kokate, Chitra L Jambhale, Sambhaji M Pawar, Sung H Han and Sanjay S Kolekar, Published 14 March 2012 • 2012



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Technical Specification

Molecular Formula	Molecular Weight	pH	Concentration	Solvent
Cu	63.55 g/mol	2.2	1000ppm	Water

Chemical Composition

Product	Weight Percent (nominal)	
	Cu	Other Metal
Copper Nano Dispersion	99.9%	

Properties

- ✓ Chemical Formula: Cu
- ✓ CAS No.: 7440-50-8

Ordering Information and Stock Availability

- ✓ Product: Copper Nano Dispersion
- ✓ Stock Availability: Available
- ✓ Distribution: Global
- ✓ Packing Sizes: 25ml, 50ml, 100ml, 500ml & Bulk Order

Handling Recommendations

- ✓ Store in the original container in a dry location.
- ✓ Tumble contents prior to use to prevent segregation.
- ✓ Open containers should be stored in a drying oven to prevent moisture pickup.

Safety Recommendations

1521SDS are available from the Nanoshel Website at <https://www.nanoshel.com/product/copper-dispersion>

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