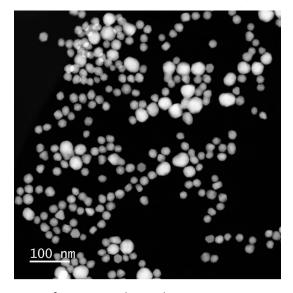


Metalon® Conductive Inks for Printed Electronics

www.novacentrix.com

Metalon® JG-001 Gold Dispersion

Metalon JG-001 Gold Dispersion is an economical dispersion of gold nanoparticles in water. The nanoparticles have a polymeric capping agent ($^{\sim}1.5\%$ w/w) and no additional dispersing aid is added. The dispersion can be provided at various concentrations from 1-50% w/w according to the customer's requirements.



Size Distribution by Intensity

TEM of nanoparticles in dispersion

Particle size distribution as measured by DLS

Resistivity - Thermal Processing		
Cure temperature (°C)	Volume Resistivity¹ (Ω-cm)	X Bulk Gold
150	7.3 E-05	32.5
175	2.0 E-05	9.1
200	8.5 E-06	3.8
225	5.4 E-06	2.4
250	5.3 E-06	2.4
275	5.3 E-06	2.4
300	5.2 E-06	2.3

Physical Properties

General: Aqueous Au nanoparticle dispersion

Viscosity (1% w/w): 1 cP

Viscosity (50% w/w): <15 cP

Flash point: Non-flammable

Avg particle size (DLS): 20-50 nm

¹ Calculated based on 25% porosity

Shipping and	Packaging size is dependent on Au concentration requested.
Packaging	Product should be refrigerated at ~4C for longest shelf life.

www.novacentrix.com info@novacentrix.com