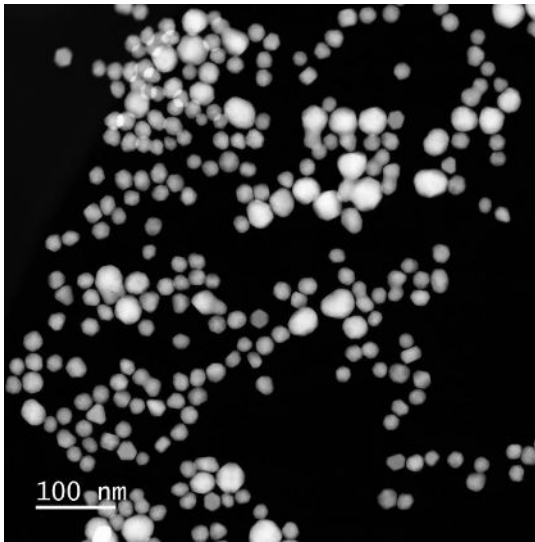
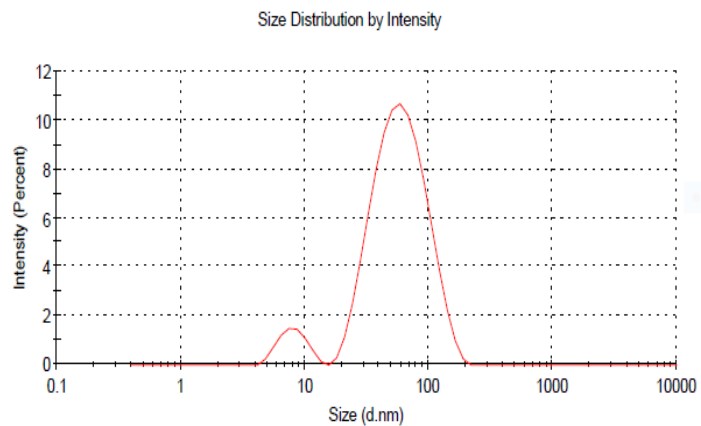


Metalon® JG-001 Gold Dispersion

Metalon JG-001 Gold Dispersion is an economical dispersion of gold nanoparticles in water. The nanoparticles have a polymeric capping agent (~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.



TEM of nanoparticles in dispersion



Particle size distribution as measured by DLS

Resistivity - Thermal Processing		
Cure temperature (°C)	Volume Resistivity ¹ (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

¹ Calculated based on 25% porosity

Physical Properties	
<i>General:</i> Aqueous Au nanoparticle dispersion	
<i>Viscosity (1% w/w):</i>	1 cP
<i>Viscosity (50% w/w):</i>	<15 cP
<i>Flash point:</i>	Non-flammable
<i>Avg particle size (DLS):</i>	20-50 nm

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