

TECHNICAL DATA SHEET

Polygel Product Management

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Silver Nano powder

Molecular Formula	Ag
Molecular Weight	107.87 g/mol
CAS No.	7440-22-4

Typical Properties: Product Specifications

Sr. No.	Specification / Test	Unit	Standard Value
1	Appearance	-	Dark gray powder
2	Purity	%	99.9 (trace metal basis)
3	APS	-	30 – 50 nm
4	Density	g/cm ³	10.49
5	Melting Point	°C	960.8
6	Boiling Point	°C	2162
7	Solubility	-	Insoluble in water

Applications:

- As anti-bacterial agents in health industry, textile coating, paint, food storage and several environmental applications.
- In photovoltaics, biological and chemical sensors due to its unique optical, electrical and thermal properties.
- In conductive inks, paste and fillers due to its high electrical conductivity, stability and low sintering temperature.
- As antimicrobial coatings in molecular diagnostics and photonic devices, and many textiles, keyboards and wound dressing.

Note: Information in this publication is believed to be accurate and is given in good faith, but is for the customer to satisfy itself of the suitability for its own particular purpose. Accordingly, Polygel Organometallic (Brunei) Sdn. Bhd gives no warranty as to the fitness of the product of any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded to the extent that such exclusion is prevented by law.

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