

American Elements Samarium Nanoparticles

Category : Metal , Nonferrous Metal , Pure Element

Material Notes:

General Description Samarium (Sm) Nanoparticles, nanodots or nanopowder are black spherical high surface area particles. Nanoscale Samarium Particles are typically 10 - 50 nanometers (nm) with specific surface area (SSA) in the 30 – 50 m²/g range. Nano Samarium Particles are also available in passivated and Ultra high purity and high purity and coated and dispersed forms. Research into applications for samarium nanocrystals has focused on use as a magnetic nanoparticle and luminescence, in fluorescent labels, as a dopant in glass and for their potential electrical, dielectric, magnetic, optical, catalytic, biomedical and bioscience properties and for use in coatings, plastics, nanowire, nanofiber and textiles and in alloy and catalyst applications.

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http://www.lookpolymers.com/polymer_American-Elements-Samarium-Nanoparticles.php

Physical Properties	Metric	English	Comments
Density	7.353 g/cc	0.2656 lb/in ³	
Particle Size	0.010 - 0.050 µm	0.010 - 0.050 µm	
Specific Surface Area	30 - 50 m ² /g	30 - 50 m ² /g	
Molecular Weight	150.36 g/mol	150.36 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	1072 °C	1962 °F	
Boiling Point	1803 °C	3277 °F	

Descriptive Properties	Value	Comments
Appearance	Black	
Stability	Moderately reactive in air	

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