

American Elements Gadolinium Nanoparticles

Category : Metal , Nonferrous Metal , Pure Element

Material Notes:

General Description Gadolinium (Gd) Nanoparticles, nanodots or nanopowder are black spherical high surface area particles. Nanoscale Gadolinium Particles are typically 10 - 45 nanometers (nm) with specific surface area (SSA) in the 30 – 50 m²/g range and also available in with an average particle size of 75 - 90 nm range with a specific surface area of approximately 5 - 10 m²/g. Nano Gadolinium Particles are also available in passivated and Ultra high purity and high purity and coated and dispersed forms. Research into applications for gadolinium nanocrystals has focused on use in magnetic resonance imaging (MRI) by targeting coated gadolinium particles at tumors in an attempt to detect or label early stage cancer, particularly breast cancer, for Neutron Capture Therapy and for MRI Contrast Enhancement, 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.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	7.901 g/cc	0.2854 lb/in ³	
Particle Size	0.010 - 0.045 µm	0.010 - 0.045 µm	
	0.075 - 0.090 µm	0.075 - 0.090 µm	
Specific Surface Area	5.0 - 10 m ² /g	5.0 - 10 m ² /g	
	30 - 50 m ² /g	30 - 50 m ² /g	
Molecular Weight	157.25 g/mol	157.25 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	1312 °C	2394 °F	
Boiling Point	3250 °C	5880 °F	

Descriptive Properties	Value	Comments
Appearance	Black	
Stability	Moderately reactive in air	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China