

American Elements Praseodymium Nanoparticles

Category : Metal , Nonferrous Metal , Pure Element

Material Notes:

General DescriptionPraseodymium (Pr) Nanoparticles, nanodots or nanopowder are black spherical high surface area particles. Nanoscale Praseodymium Particles are typically 10 - 45 nanometers (nm) with specific surface area (SSA) in the 30 – 50 m²/g range. Nano Praseodymium Particles are also available in passivated and Ultra high purity and high purity and coated and dispersed forms. Research into applications for praseodymium nanocrystals has focused on use as a dopant in optical fibers their potential electrical, 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-Praseodymium-Nanoparticles.php

Physical Properties	Metric	English	Comments
Density	6.64 g/cc	0.240 lb/in ³	
Particle Size	0.010 - 0.045 µm	0.010 - 0.045 µm	
Specific Surface Area	30 - 50 m ² /g	30 - 50 m ² /g	
Molecular Weight	140.91 g/mol	140.91 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	935 °C	1720 °F	
Boiling Point	3290 °C	5950 °F	

Descriptive Properties	Value	Comments
Appearance	Black	
Stability	Moderately reactive in air	

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