

## American Elements Neodymium Nanoparticles

Category : Metal , Nonferrous Metal , Pure Element

### Material Notes:

General Description Neodymium (Nd) Nanoparticles, nanodots or nanopowder are black spherical high surface area particles. Nanoscale Neodymium Particles are typically 10 - 45 nanometers (nm) with specific surface area (SSA) in the 30 – 50 m<sup>2</sup>/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 m<sup>2</sup>/g. Nano Neodymium Particles are also available in passivated and Ultra high purity and high purity and coated and dispersed forms. Research into applications for neodymium nanocrystals has focused on use as a dopant in glass and optical fibers 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-Neodymium-Nanoparticles.php](http://www.lookpolymers.com/polymer_American-Elements-Neodymium-Nanoparticles.php)

Physical Properties	Metric	English	Comments
Density	6.80 g/cc	0.246 lb/in <sup>3</sup>	
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 <sup>2</sup> /g	5.0 - 10 m <sup>2</sup> /g	
	30 - 50 m <sup>2</sup> /g	30 - 50 m <sup>2</sup> /g	
Molecular Weight	144.24 g/mol	144.24 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	1024 °C	1875 °F	
Boiling Point	3100 °C	5610 °F	

Descriptive Properties	Value	Comments
Appearance	Black	
Stability	Moderately reactive in air	

## Contact Songhan Plastic Technology Co.,Ltd.

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