

## American Elements Yttrium Nanoparticles

Category : Metal , Nonferrous Metal , Pure Element

**Material Notes:**

General Description Yttrium (Y) Nanoparticles, nanodots or nanopowder are black spherical high surface area particles. Nanoscale Yttrium Particles are typically 5 - 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 - 100 nm range with a specific surface area of approximately 5 - 10 m<sup>2</sup>/g. Nano Yttrium Particles are also available in passivated and Ultra high purity and high purity and coated and dispersed forms. Research into applications for yttrium nanocrystals has focused on 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-Yttrium-Nanoparticles.php](http://www.lookpolymers.com/polymer_American-Elements-Yttrium-Nanoparticles.php)

Physical Properties	Metric	English	Comments
Density	4.472 g/cc	0.1616 lb/in <sup>3</sup>	
Particle Size	0.0050 - 0.045 µm	0.0050 - 0.045 µm	
	0.075 - 0.10 µm	0.075 - 0.10 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	88.91 g/mol	88.91 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	1526 °C	2779 °F	
Boiling Point	3336 °C	6037 °F	

Descriptive Properties	Value	Comments
Appearance	Black	
Stability	Fairly stable in air	

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