

American Elements Terbium Nanoparticles

Category : Metal , Nonferrous Metal , Pure Element

Material Notes:

General DescriptionTerbium (Tb) Nanoparticles, nanodots or nanopowder are black spherical high surface area particles. Nanoscale Terbium Particles are typically 10 - 80 nanometers (nm) with specific surface area (SSA) in the 30 – 60 m²/g range. Nano Terbium Particles are also available in passivated and Ultra high purity and high purity and coated and dispersed forms. Research into applications for terbium nanocrystals has focused on use as a dopant in glass and optical fibers, in phosphors, nanophosphors and doped phosphorous nanoparticles i n nanosensors and nanodevices using caged atoms in nanoparticles doped with a few atoms of terbium as the emitter of green light and for their potential electrical, dielectric, magnetic, optical, imaging, 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-Terbium-Nanoparticles.php

Physical Properties	Metric	English	Comments
Density	8.219 g/cc	0.2969 lb/in ³	
Particle Size	0.010 - 0.080 µm	0.010 - 0.080 µm	
Specific Surface Area	30 - 60 m ² /g	30 - 60 m ² /g	
Molecular Weight	158.93 g/mol	158.93 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	1356 °C	2473 °F	
Boiling Point	3230 °C	5850 °F	

Descriptive Properties	Value	Comments
Appearance	Black	
Stability	Extremely reactive in air	

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