

American Elements Ytterbium Nanoparticles

Category : Metal , Nonferrous Metal , Pure Element

Material Notes:

General Description Ytterbium (Yb) Nanoparticles, nanodots or nanopowder are black spherical high surface area particles. Nanoscale Ytterbium Particles are typically 10 - 80 nanometers (nm) with specific surface area (SSA) in the 30 – 60 m²/g range. Nano Ytterbium Particles are also available in passivated and Ultra high purity and high purity and coated and dispersed forms. Research into applications for Ytterbium nanocrystals has focused on use for high-power fiber lasers and amplifiers, as a dopant or by direct deposition in glass, laser optics and optical fibers, in phosphors, nanophosphors and doped phosphorous nanoparticles and for their potential magnetic, optical, imaging, biomedical and bioscience properties and for use in coatings, plastics, nanowire, and in alloy and catalyst applications.

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Physical Properties	Metric	English	Comments
Density	6.57 g/cc	0.237 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	173.04 g/mol	173.04 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	824 °C	1520 °F	
Boiling Point	1196 °C	2185 °F	

Descriptive Properties	Value	Comments
Appearance	Black	
Stability	Easily oxidized in air	

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