

American Elements Europium Nanoparticles

Category : Metal , Nonferrous Metal , Pure Element

Material Notes:

General DescriptionEuropium (Eu) Nanoparticles, nanodots or nanopowder are black spherical high surface area particles. Nanoscale Europium Particles are typically 10 - 45 nanometers (nm) with specific surface area (SSA) in the 30 – 50 m²/g range and also available in with an average particle size of 75 - 100 nm range with a specific surface area of approximately 2 - 10 m²/g. Nano Europium Particles are also available in passivated and Ultra high purity and high purity and coated and dispersed forms. Research into applications for europium nanocrystals has focused on use with time -resolved fluorometry to improve the detection limit of biochemical assays, in phosphors, nanophosphors and doped phosphorous nanoparticles, i n nanosensors and nanodevices using caged atoms in nanoparticles doped with a few atoms of europium as the emitter of red light, 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.

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http://www.lookpolymers.com/polymer_American-Elements-Europium-Nanoparticles.php

Physical Properties	Metric	English	Comments
Density	5.244 g/cc	0.1895 lb/in ³	
Particle Size	0.010 - 0.045 µm	0.010 - 0.045 µm	
	0.075 - 0.10 µm	0.075 - 0.10 µm	
Specific Surface Area	2.0 - 10 m ² /g	2.0 - 10 m ² /g	
	30 - 50 m ² /g	30 - 50 m ² /g	
Molecular Weight	151.97 g/mol	151.97 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	826 °C	1520 °F	
Boiling Point	1527 °C	2781 °F	

Descriptive Properties	Value	Comments
Appearance	Black	
Stability	Store under argon gas	

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