

American Elements Lanthanum Nanoparticles

Category : Metal , Nonferrous Metal , Pure Element

Material Notes:

General DescriptionLanthanum (La) Nanoparticles, nanodots or nanopowder are black spherical high surface area particles. Nanoscale Lanthanum Particles are typically 5 - 40 nanometers (nm) with specific surface area (SSA) in the 30 – 50 m²/g range and also available in with an average particle size of 60 - 100 nm range with a specific surface area of approximately 5 - 10 m²/g. Nano Lanthanum Particles are also available in passivated and Ultra high purity and high purity and coated and dispersed forms. Applications for lanthanum nanocrystals include numerous fuel cell functions such as in the cathode of solid oxide fuel cells (SOFC) and for phosphate removal in biomedical and environmental uses, as a heat block in glass using lanthanum hexaboride (LaB₆) and in coatings, in phosphors, nanophosphors and doped phosphorous nanoparticles plastics, nanowire, nanofiber and textiles and in certain alloy and catalyst applications. Further research is being done for their potential electrical, dielectric, magnetic, optical, imaging, catalytic, biomedical and bioscience properties.

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

Physical Properties	Metric	English	Comments
Density	6.146 g/cc	0.2220 lb/in ³	
Particle Size	0.0050 - 0.040 μm	0.0050 - 0.040 μm	
	0.060 - 0.10 μm	0.060 - 0.10 μm	
Specific Surface Area	5.0 - 10 m ² /g	5.0 - 10 m ² /g	
	30 - 50 m ² /g	30 - 50 m ² /g	
Molecular Weight	138.91 g/mol	138.91 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	920 °C	1690 °F	
Boiling Point	3470 °C	6280 °F	

Descriptive Properties	Value	Comments
Appearance	Black	
Stability	Easily oxidized in air	

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