

## American Elements Lanthanum Oxide Nanopowder

Category : Ceramic , Oxide

**Material Notes:**

General Description Lanthanum Oxide (LaO) Nanoparticles, nanodots or Nanopowder are white spherical high surface area metal particles. Nanoscale Lanthanum Oxide Particles are typically 10-30 nanometers (nm) with specific surface area (SSA) in the 130-150 m<sup>2</sup>/g range. Nano Lanthanum Oxide Particles are also available in passivated and in Ultra high purity and high purity and carbon coated and dispersed forms. Applications for Lanthanum Oxide nanocrystals include in preparation of various perovskite nanostructures (such as lanthanum manganite and lanthanum chromite) for the cathode layer of solid oxide fuel cells (SOFC), as a Magnetic Nanoparticle (also as iron oxide - lanthanum oxide nanoparticles) for magnetic data storage and magnetic resonance imaging (MRI), in biosensors, for phosphate removal in bio medical and water treatment (including swimming pools and spas) applications, in laser crystals and optics, and in nanowire, nanofiber and in certain alloy and catalyst applications. Further research is being done for their potential electrical, dielectric, magnetic, optical, imaging, catalytic, biomedical and bioscience uses.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_American-Elements-Lanthanum-Oxide-Nanopowder.php](http://www.lookpolymers.com/polymer_American-Elements-Lanthanum-Oxide-Nanopowder.php)

Physical Properties	Metric	English	Comments
Density	6.50 g/cc	0.235 lb/in <sup>3</sup>	
Particle Size	0.010 - 0.030 µm	0.010 - 0.030 µm	
Specific Surface Area	130 - 150 m <sup>2</sup> /g	130 - 150 m <sup>2</sup> /g	
Molecular Weight	325.82 g/mol	325.82 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	2305 °C	4181 °F	
Boiling Point	4200 °C	7590 °F	

Descriptive Properties	Value	Comments
Appearance	White	
Solubility	Insoluble in water, moderately soluble in strong mineral acids	
Stability	Strongly hygroscopic	

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