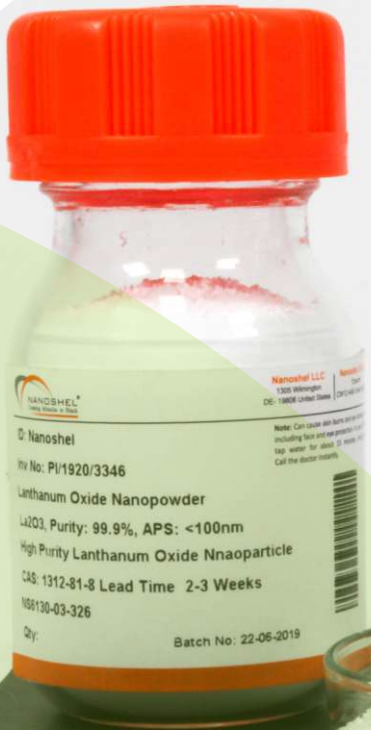






# LANTHANUM OXIDE NANOPOWDER



Purity  
**99.9%**



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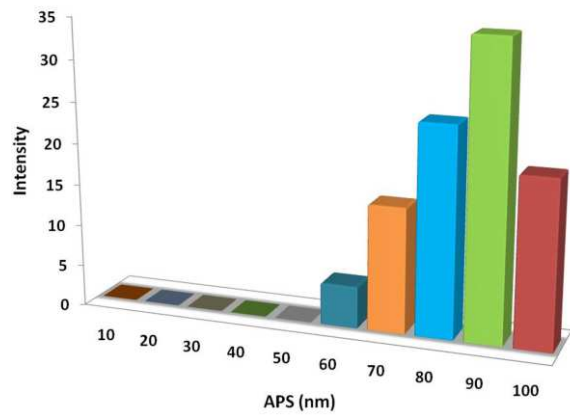
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NS6130-03-327

NEXT 

## LANTHANUM OXIDE NANOPOWDER

Lanthanum oxide (La<sub>2</sub>O<sub>3</sub>) powders have a lot of attractive properties for industrial and technological applications such as: Nanometer lanthanum oxide can be used in piezoelectric materials to increase product piezoelectric coefficients and improve product energy conversion efficiency; Nano-lanthanum oxide can be used for the manufacture of precision optical glass, high-refraction optical fiber, all kinds of alloy materials; Nano-lanthanum oxide can be used for the preparation of organic chemical products catalysts, and in automobile exhaust catalyst; Nanometer Lanthanum oxide can improve the burning rate of propellant, is a promising catalyst; As regards the photoelectric conversion efficiency of nano-lanthanum oxide is high, it can be used in light-converting agricultural film; Also, nano-lanthanum oxide can be used in electrode materials and in light-emitting material (blue powder), hydrogen storage materials, laser materials etc.



### ADDITIONAL POWDER CHARACTERISTICS

Stock No.	Purity	APS
NS6130-03-327	99.9%	<200nm

### TECHNICAL SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
La <sub>2</sub> O <sub>3</sub>	325.809g/mol	6.51g/cm <sup>3</sup>	2315°C

### CHEMICAL COMPOSITION

Product	Weight Percent (nominal)	
	La <sub>2</sub> O <sub>3</sub>	Other Metal
Lanthanum Oxide Nanopowder	99.9%	750ppm

### APPLICATIONS

- > Magnetic data storage and magnetic resonance imaging (MRI)
- > In biosensors
- > For phosphate removal in bio medical and water treatment
- > In laser crystals and optics
- > Improve product energy conversion efficiency
- > High-refraction optical fibers, precision optical glasses, and other alloy materials
- > Cathode layer of solid oxide fuel cells (SOFC)
- > Automobile exhaust catalysts
- > Improve the burning rate of propellants
- > In light-converting agricultural films

## QuickFACTS

Product	:	Lanthanum Oxide Nanopowder
Stock No	:	NS6130-03-327
CAS	:	1312-81-8
Color	:	White
Form	:	Powder
Symbol	:	La <sub>2</sub> O <sub>3</sub>
Group	:	Lanthanum 3/Oxygen 16

### Electronic Configuration:

Lanthanum [Xe] 5d1 6s2/Oxygen [He] 2s2 2p4



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015  
CERTIFIED COMPANY

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