

# LANTHANUM

OXIDE POWDER

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#### OXIDE POWDER

Lanthanum oxide is used in optical materials; often the optical glasses are doped with La2O3 to improve the glass' refractive index, chemical durability, and mechanical strength.La2O3 is used to make optical glasses, to which this oxide confers increased density, refractive index, and hardness. Together with oxides of tungsten, tantalum, and thorium, La2O3 improves the resistance of the glass to attack by alkali. La2O3 is an ingredient for the manufacture of piezoelectric and thermoelectric materials. Automobile exhaust-

gas converters contain La2O3. La2O3 films can be deposited by many different methods, including chemical vapor disposition, atomic layer deposition, thermal oxidation, sputtering, and spray pyrolysis. Depositions of these films occur in a temperature range of 250–450 °C. Polycrystalline films are formed at 350 °C. La2O3 tungsten electrodes are replacing thoriated tungsten electrodes in Gas tungsten arc welding (TIG) due to safety concerns with thorium's radioactivity.





Product : Lanthanum Oxide Powder

Stock No : NS6130-05-571

CAS : 1312-81-8

Color : White

Form : Powder



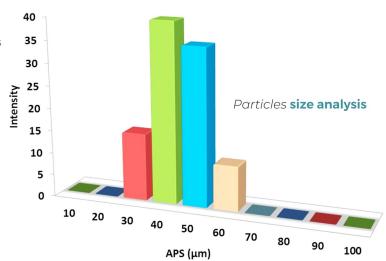








- Optical materials
- La-Ce-Tb phosphors for fluorescent lamps
- Dielectric and conductive ceramics
- Barium titanate capacitors



### **Additional**

#### **Powder Characteristics**

Stock No.	Purity	APS
NS6130-05-571	99%	40-50nm

## **Technical** Specification

Molecular Formula	Molecular Weight	Density	Melting Point	<b>Boiling Point</b>
La2O3	325.809 g/mol	6.51 g/cm3	2315 °C	4200 °C











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### Chemical Composition

Product	Weight Percent (nominal)		
	La2O3	Other Metal	
Lanthanum Oxide Powder	99%	0.1%	

### **Properties**

- ✓ Chemical Formula:La2O3
- ✓ CAS No.:1312-81-8

### **Ordering Information** and Stock Availability

- ✓ Product: Lanthanum Oxide Powder
- Stock Availability: Available
- Distribution: Global
- ✓ Packing Sizes: 25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders

#### **Handling** Recommendations

- ✓ Store in the original container in a dry location.
- ✓ Tumble contents prior to use to prevent segregation.
- ✓ Open containers should be stored in a drying oven to prevent moisturepickup.

#### **Safety** Recommendations

Download MSDS/SDS NS6130-05-507A

areavailable from the Nanoshel

Website at

https://www.nanoshel.com/product/lanthanum-oxide-powder









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