LANTHANUM OXIDE NANOPOWDER

La$_2$O$_3$

Purity 99.9%
Lanthanum oxide (La2O3) 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.

**Quick Facts**

- **Product**: Lanthanum Oxide Nanopowder
- **Stock No**: NS6130-03-327
- **CAS**: 1312-81-8
- **Color**: White
- **Form**: Powder
- **Symbol**: La₂O₃
- **Group**: Lanthanum 3/Oxygen 16

**Electronic Configuration:**

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

**APPLICATIONS**

- Magnetic data storage and magnetic resonance imaging (MRI)
- In biosensors
- For phosphate removal in biomedical 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