

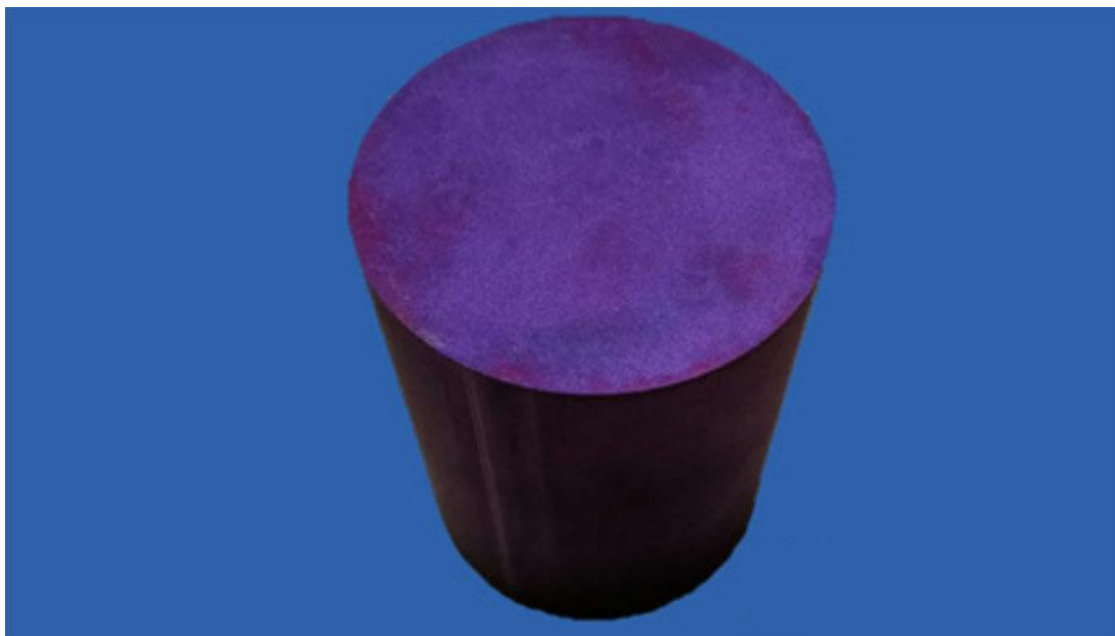


### Lanthanum Hexaboride Rod

As the professional manufacture, we would like to provide you Nextgen Lanthanum Hexaboride Rod. Lanthanum hexaboride, also called lanthanum boride and LaB<sub>6</sub>, is an inorganic chemical, a boride of lanthanum. Nextgen Advanced Materials supplies Lanthanum Hexaboride Rods with high quality and fast delivery, and customized products are available.

### Product Description

You can rest assured to buy Nextgen Lanthanum Hexaboride Rod from our factory and we will offer you the best after-sale service and timely delivery. Lanthanum Boride, also called Lanthanum Hexaboride or LaB<sub>6</sub>, is a refractory ceramic material. It has a high melting point of 2210 °C, and is insoluble in water and hydrochloric acid. And it is stable in vacuum. Borides are hard, high-melting materials with metal-like conductivity, and they are stable to nonoxidizing acids but break down in strong oxidizing agents and strong alkalis. Borides are used in semiconductors, superconductors, diamagnetic, paramagnetic, ferromagnetic, anti-ferromagnetic, turbine blades, and rocket nozzles. High Purity (99.999%) Lanthanum Boride Sputtering Target nanopowder forms may be considered.



### Lanthanum Hexaboride Rod Specifications

Product	Lanthanum	Structure	Polycrystalline
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	Hexaboride		
Symbol	LaB6 cathode	Thermal Conductive	47 W/mK (20°C)
Cas No.	12008-21-8	Thermal Expansion	6.2 10-6K-1 (20-900°C)
Atomic Mass	203.78 g/mol	Electrical Resistance	ca. 15 $\mu\Omega$ cm (20°C)
Density	4.72 g/cm <sup>3</sup>	Electrical Conductive	6.65×10 <sup>4</sup> S/cm (20°C)
Melting Point	2528 K	Current Denstiy	150 A/cm <sup>2</sup> (1950°C)
Hardness	87.5 RA	Electron Emissivity	2.6 eV
Flexure Strength ( $\sigma$ )	200 Mpa	Fracture toughness (K <sub>ic</sub> )	3.0 MN/m <sup>3/2</sup>