



### Lanthanum Hexaboride Ring

You can rest assured to buy Nextgen Lanthanum Hexaboride Ring 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 an inorganic chemical and refractory ceramic material. Nextgen Advanced Materials supplies lanthanum boride rings with high quality and fast delivery, and customized

products are available.

### Product Description

As the professional manufacture, we would like to provide you Nextgen Lanthanum Hexaboride Ring. 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 an inorganic chemical, a boride of lanthanum, and a refractory ceramic material. It is stable in a vacuum; it has a high melting point of 2210 °C. It is insoluble in water and hydrochloric acid. Lanthanum Hexaboride (LaB<sub>6</sub>) Ring can be used widely in various fields beaded on its properties. We provide LaB<sub>6</sub> Ring per drawing; dimensions will be relatively small compared to metal parts, and regular purity is 99.5%.



### Lanthanum Hexaboride Material Specifications

Product	Lanthanum Hexaboride	Structure	Polycrystalline
---------	----------------------	-----------	-----------------

Symbol	LaB6	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 Conductivity	6.65×10 <sup>4</sup> S/cm (20°C)
Melting Point	2528 K	Current Density	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>