



### Lanthanum Hexaboride Sheet

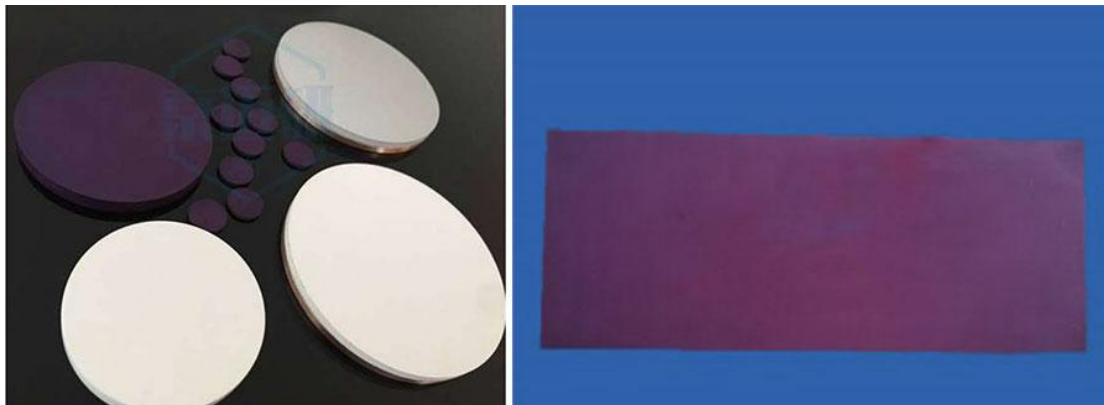
As the professional manufacture, we would like to provide you Nextgen Lanthanum Hexaboride Sheet. Lanthanum Hexaboride, also called Lanthanum Boride or LaB6, is an inorganic chemical and refractory ceramic material. Nextgen Advanced Materials supplies lanthanum boride sheets and plates with high quality and fast delivery, and customized products are available.

### Product Description

Nextgen Lanthanum Hexaboride Sheet & Plate is made of Lanthanum Boride ceramic. Lanthanum Boride is also called Lanthanum Hexaboride or LaB6, 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.



### Lanthanum Hexaboride Sheet Specifications

Product	Lanthanum Hexaboride	Structure	Polycrystalline
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 μΩ cm (20°C)
Density	4.72 g/cm3	Electrical Conductive	6.65×104 S/cm

			(20°C)
Melting Point	2528 K	Current Denstiy	150 A/cm2 (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>