



Cerium Hexaboride Powder

Cerium Boride, also called Cerium Hexaboride or CeB6, is a refractory ceramic material. Nextgen Advanced Materials supplies Cerium Hexaboride Powder with high quality and fast delivery, and customized products are also available.

Product Description

As the professional manufacture, we would like to provide you high quality Nextgen Cerium Hexaboride Powder. And we will offer you the best after-sale service and timely delivery. Cerium Boride, also called Cerium Hexaboride or CeB6, is a refractory ceramic material. The principal use of cerium hexaboride is a coating of hot cathodes, or hot cathodes made of cerium hexaboride crystals. It usually operates at temperature of 1450 °C.

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.





Material Data for LaB6 and CeB6

Parameter	Units	LaB6	CeB6
Stoichiometry	N/A	~6	
Metal Impurities	ppm by wt.	<30	
Density	g/cm3	4.72	4.80

Tel: +86-818-9683600 E-mail: sales@nexgematerials.com



Nextgen Advanced Materials INC www.nexgematerials.com Coefficient of Thermal Expansion 6.2 α x 106 5.6 Electrical Resistivity μΩ-cm ~50 ~65 2.70 2.65 Effective Work Function (100) at 1800 K eV 0.779 Spectral Emissivity at 0.65 microns N/A 0.765 Evaporation rate at 1800 K (UHV) g/cm2/s 2.2 x 10-9 1.6 x 10-9 <2 Orientation limit for specific orientation degrees Pyrolitic block mount resistance @ 1800 K Ohms 1.45

Tel: +86-818-9683600 E-mail: sales@nexgematerials.com