



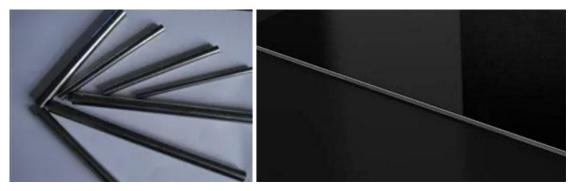
Cerium Hexaboride Rod

You can rest assured to buy Nextgen Cerium Hexaboride Rod from our factory 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. Nextgen Advanced Materials supplies Cerium Hexaboride Rods with high quality and fast delivery, and customized products are also available.

Product Description

As the professional manufacture, we would like to provide you Nextgen Cerium Hexaboride Rod. 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.

Cerium hexaboride, like lanthanum hexaboride, slowly evaporates during the cathode operation. In conditions where CeB6 cathodes are operated under 1850 K, CeB6 should maintain its optimum shape longer and therefore last longer. While the process is about 30% slower than with lanthanum boride, the cerium boride deposits are reported to be more difficult to remove.



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
Coefficient of Thermal Expansion	α x 106	5.6	6.2



Nextgen Advanced Materials TO BE THE BEST	Nextgen Advanced Materials INC		www.nexger	www.nexgematerials.com	
Electrical Resistivity		μΩ-cm	~50	~65	
Effective Work Function	on (100) at 1800 K	eV	2.70	2.65	
Spectral Emissivity at	0.65 microns	N/A	0.765	0.779	
Evaporation rate at 18	800 K (UHV)	g/cm2/s	2.2 x 10-9	1.6 x 10-9	
Orientation limit for sp	ecific orientation	degrees	<2		
Pyrolitic block mount	esistance @ 1800 K	Ohms	1.45		