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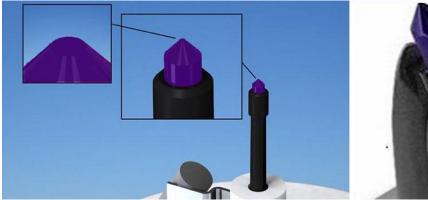
Cerium Hexaboride Cathodes

You can rest assured to buy Nextgen Cerium
Hexaboride Cathodes 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 Cathode with high quality and
fast delivery, and customized products are also

Product Description

You can rest assured to buy customized Nextgen Cerium Hexaboride Cathodes from us. We look forward to cooperating with you, if you want to know more, you can consult us now, we will reply to you in time! 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	

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Nextgen Advanced Materials INC		www.nexger	www.nexgematerials.com	
Density	g/cm3	4.72	4.80	
Coefficient of Thermal Expansion	α x 106	5.6	6.2	
Electrical Resistivity	μΩ-cm	~50	~65	
Effective Work Function (100) at 1800 K	eV	2.70	2.65	
Spectral Emissivity at 0.65 microns	N/A	0.765	0.779	
Evaporation rate at 1800 K (UHV)	g/cm2/s	2.2 x 10-9	1.6 x 10-9	
Orientation limit for specific orientation	degrees	<2		
Pyrolitic block mount resistance @ 1800 K	Ohms	1.45		

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