



Cerium Hexaboride Ceramic Part

Cerium Boride, also called Cerium Hexaboride or CeB_6 , is a refractory ceramic material. Nextgen Advanced Materials supplies Cerium Hexaboride Ceramic Parts with high quality and fast delivery, and customized products are also available.

Product Description

You can rest assured to buy customized Nextgen Cerium Hexaboride Ceramic Part 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 CeB_6 , 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 CeB_6 cathodes are operated under 1850 K, CeB_6 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.



CeB6 Ceramic Parts Chemical Composition

CeB6 (% min.)			
99.9 %			
B (% min.)			
31 %			
Rare Earth Impurities		Non-RE Impurities	
La	< 120 ppm	Fe	< 250 ppm
Pr	< 150 ppm	Si	< 100 ppm
Nd	< 180 ppm	Ca	< 90 ppm
Sm	< 112 ppm	C	< 300 ppm
Y	< 250 ppm	Mg	< 100 ppm
		Ti	< 100 ppm