

Products of boron carbide

碳化硼制品

Boron carbide is always used for the neutron absorption material, nuclear project ceramic product, seal ring, spray nozzle, bullet-proof vest, and the armor-plate board of tank and helicopter.

The main industrial countries have been paying attention to the research of bulletproof materials of boron carbide since twenty years ago. Nowadays the bulletproof materials of boron carbide are enormously applied to bullet-proof vest, and the armor-plate for tank and helicopter in some developed countries such as USA, Israel, South Korea as well as some other European countries.

碳化硼常用于核工业中的中子吸收材料和核工程陶瓷材料, 军事工业中的防弹衣、飞机和坦克装甲板及工程制造中的密封环喷嘴等领域。

近 20 年来各主要工业国家都十分重视发展碳化硼防弹材料, 在美国、欧洲、以色列、南韩等国家已经大量的应用于防弹衣、飞机和坦克装甲板等。

1.Boron carbide bulletproof board 碳化硼防弹板

Bullet-proof vest 防弹衣

Light weight, high density, strong hardness, excellent resistance to creep and stress rupture; providing armor excellent protection with tank, helicopter, land vehicles, and body of military and police.

重量轻、密度高、硬度高、优良的抗高温和抗打击破裂性能; 为坦克、直升飞机、装甲车和士兵、警察提供优良的装甲保护。

Boron Carbided Ceramic Plate

Volume density	g/cm ³	2.48 Min
Bending strength	Mpa	400 Min
Hardness	HV	3300 Min



Chemical composition		B4C
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碳化硼防弹板

密度	g/cm ³	≥2.48
弯曲强度	Mpa	≥400
硬度	HV	≥3300
化学组成		B4C



2. Boron carbide seal ring 碳化硼密封环

Boron carbide spray nozzle 碳化硼喷嘴

Boron carbide Spray Nozzle and Seal ceramics can be produced according to customers' request.

碳化硼喷嘴和密封环可以按照客户要求生产。

