

Tel: 0086-371-63601837/86026101 Fax:0086-371-63602013 Website: http://www.zxmin-ref.com.cn

Address: 45-513, Futian Suntown, No. 2 of Hanghai Road, Zhengzhou, China

Boron Carbide



PROCESS OF PRODUCTION

Boron Carbide is smelted from boric acid and powdered carbon in electric furnace under high temperature. It is one of the hardest man-made materials available in commercial quantities that has a finite melting point low enough to permit its relatively easy fabrication into shapes. Some of Boron Carbide's unique properties include: high hardness, chemical inertness, and a high neutron absorbing , cross section.

APPLICATIONS

Boron Carbide is well suited to a variety of industrial applications including:

Abrasives for lapping and ultrasonic cutting ,Anti-oxidant in carbon-bonded refractory mixes, Armor Nuclear applications such as reactor control rods and neutron absorbing shielding.

Wear parts such as blasting nozzles, wire-drawing dies, powdered metal and ceramic forming dies, thread guides.

Tel: 0086-371-63601837/86026101 Fax:0086-371-63602013 Website: http://www.zxmin-ref.com.cn

Address: 45-513, Futian Suntown, No.2 of Hanghai Road, Zhengzhou, China

SPEC

BRANDS	B (%)	C (%)	Fe2O3 (%)	Si (%)	B4C (%)
F60F150	77-80	17-19	0.25-0.45	0.2-0.4	96-98
F180—F240	76-79	17-19	0.25-0.45	0.2-0.4	95-97
F280—F400	75-79	17-20	0.3-0.6	0.3-0.8	93-97
F500—F800	74-78	17-20	0.4-0.8	0.4-1.0	90-94
F1000-F1200	73-77	17-20	0.5-1.0	0.4-1.2	89-92
60 – 150mesh	76-80	18-21	0.3max	0.5max	95-98
-100mesh	75-79	17-22	0.3max	0.5max	94-97
-200mesh	74-79	17-22	0.3max	0.5max	94-97
-325mesh	73-78	19-22	0.5max	0.5max	93-97
-25micron	73-78	19-22	0.5max	0.5max	91-95
-10micron	72-76	18-21	0.5max	0.5max	90-92