

BB – Boron Carbide

1700

4,92

110

MATERIAL TECHNICAL DATA SHEET

TRADE NAME:	ВВ
MATERIAL DESCRIPTION Chemical Name & Formula:	Boron Carbide – B₄C
MAIN COMPONENTS	
B ₄ C:	99% min
PHYSICAL DATA	
Physical Form:	Polycrystalline structure
Boiling Temperature:	N.A.
Melt Temperature:	2450°C
Vapour Pressure:	N.A.
Evaporation Rate:	N.A.
Specific gravity:	N.A.
Density:	>2,48g/cm ³
Water solubility:	Insoluble
Colour:	Dark Grey
Odour:	None
MECHANICAL PROPERTIES AT ROOM TEMPERATURE	
Water Absorption	%
Vickers Hardness	(HV 0,5)
Flexural Strength	MPa
Compressive Strength	MPa
Young's Modulus	GPa

Thermal Expansion Coefficient (RT-500°C)10-6/°CThermal Shock Resistance (ΔT)°C

PHYSICAL AND CHEMICAL PROPERTIES

Thermal and wear resistance.

Maximum service temperature

Please, note that all values quoted are based on test pieces and may vary according to component design. These values are not guaranteed in any way and should only be treated as indicative values. They should be used for guidance only and for no other purpose.

°C



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