



BX-5 – Aluminium Oxide 95%

MATERIAL TECHNICAL DATA SHEET

TRADE NAME: BX-5

MATERIAL DESCRIPTION

Chemical Name & Formula: Aluminium Oxide – Sintered Alumina – Al_2O_3

MAIN COMPONENTS

Al_2O_3 : 95% min

Other Oxides: 5% max

PHYSICAL DATA

Physical Form: Polycrystalline structure

Boiling Temperature: N.A.

Melt Temperature: 2050°C

Vapour Pressure: N.A.

Evaporation Rate: N.A.

Specific gravity: N.A.

Density: 3,70g/cm³

Water solubility: Insoluble

Colour: White

Odour: None

MECHANICAL PROPERTIES AT ROOM TEMPERATURE

Water Absorption	%	0
Vickers Hardness	(HV 0,5)	1200
Flexural Strength	MPa	320
Young's Modulus	GPa	310
Maximum service temperature	°C	1300

PHYSICAL AND CHEMICAL PROPERTIES

Excellent chemical and wear resistance.

Low resistance to HF (Hydrofluoric acid).

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.

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