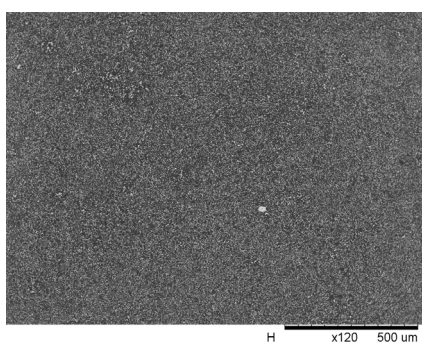




KBNC

Boron Nitride Composite



Typical microstructure

Main properties

- High resistance to thermal shock
- Good machinability
- High electrical insulation
- Good corrosion and wear resistance
- Non-wetted by non-ferrous molten metals

Applications

- Nozzles for powder metal atomization
- Insulators for high temperature furnaces
- Wall channells for electrical propulsion systems

Physical properties

Parameters	Units	Value
Density	g/cm ³	2.90
Strength (3 point bending)	MPa	160
Hardness Knoop	Kg/mm ²	85
Thermal conductivity (in-plane XY)	W/m·k	50
Thermal conductivity (out-plane Z)	W/m·k	10
Thermal Expansion Coefficient (XY)	10 ⁻⁶ K ⁻¹	4.0
Maximum use temperature (Oxidizing/Inert)	°C	800/1500

*All properties measured at 20°C unless otherwise stated

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