Anoop Ceramics
Accuracy • Adaptability • Assurance

Porous Cordierite Refractory

Description:

Cordierite Refractory is mainly a structural ceramic, often used for kiln furniture due to its extremely good thermal shock.

Composition:			
Al_2O_3:	35 %	MgO and Silica:	13 % and 50 %
Binders:	Propriety	Additives:	Propriety

Specifications:		Units
Colour	Yellowish Ivory	
Compressive (Crushing) Strength	165	MPa
Density	2.20	g/cm^3
Hardness	50	R45N
Dielectric Constant (Relative Permittivity)	-	N/A
Dielectric Strength (Breakdown Potential)	-	kV/mm
Elastic (Young's, Tensile) Modulus	103	GPa
Electrical Resistivity Order of Magnitude	$1x10^{14}$	Ω-m
Flexural Strength	66	MPa
Fracture Toughness	-	MPa
Poisson's Ratio	0.31	N/A
Specific Heat Capacity	-	J/kg-K
Tensile Strength Ultimate (UTS)	19	MPa
Thermal Conductivity	3 W/m-K	W/m-K
Thermal Expansion	4.2	µm/m-K

Features:

- Superior thermal shock resistance
- Low thermal expansion
- Thermal stability
- Good electrical resistivity
- Immune to furnace all atmospheres

Applications:

- Crucibles
- Bushings
- Furnace Boards
- Slabs
- Short tubes

Production Capabilities:

- Isostatic and dry pressing, green machining
- Various shapes and sizes as per requirement
- Prototype, batch and volume production

These values represent typical properties of standard materials.
Values should be used only for comparison and should not be used as a warranty.