

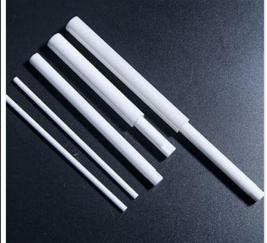
Cordierite Ceramic Rod

You can rest assured to buy Nextgen Cordierite Ceramic Rod from our factory. Cordierite Rod is a commonly used structure ceramic material which has the advantage of energy-efficiency and high-temperature resistance. Nextgen Advanced Materials supplies Cordierite Rod with high quality and fast delivery and customized products are also available.

Product Description

As the professional manufacture, we would like to provide you Nextgen Cordierite Ceramic Rod. And we will offer you the best after-sale service and timely delivery. Cordierite ceramic rod is made of silicate ceramic cordierite (Mg2Al4Si5O18). Cordierite is a commonly used structure ceramic material which has the advantage of energy-efficiency and high-temperature resistance. It is widely used on barbeque grill, burn oven, convection oven, gas oven, rotary oven, natural gas heater, space heater crucible and various heating equipment, etc.





Cordierite Rod Specifications					
Properties	Units	Test	Value		
Physical					
Chemical Formula	_	_	2MgO-2Al2O3-5SiO2		
Density, r	g/cm3	ASTM C20	2.60		
Color	_	_	off-white		
Crystal Structure	_	_	orthorhombic		

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Nextgen Advanced Materials TO BE THE BEST Next	tgen Advanced Materials IN	C w	ww.nexgematerials.com
Water Absorption	% @R.T.	ASTM C373	0.02 – 3.2
Hardness	Moh's	_	7
Hardness	knoop (kg/mm2)	Knoop 100g	_
	Mechanical		
Compressive Strength	MPa @ R.T.	ASTM C773	350
Tensile Strength	MPa @ R.T.	ACMA Test #4	25.5
Modulus of Elasticity (Young's Mod.)	GPa	ASTM C848	70
Flexural Strength (MOR)	MPa @ R.T.	ASTM F417	117
Poisson's Ratio, u	_	ASTM C818	0.21
Fracture Toughness, KIc	MPa x m1/2	Notched Beam Test	_
	Thermal		
Max. Use Temperature (* denotes inert atm.)	°C	No load cond.	1371
Thermal Shock Resistance	DT (°C)	Quenching	500
Thermal Conductivity	W/m-K @ R.T.	ASTM C408	3.0
Coefficient of Linear Thermal Expansion, al	mm/m-°C (~25°C through ±1000°C)	ASTM C372	1.7
Specific Heat, cp	cal/g-ºC @ R.T.	ASTM C351	0.35
	Electrical		
Dielectric Constant	1MHz @ R.T.	ASTM D150	4.7
Dielectric Strength	kV/mm	ASTM D116	5.11
Electrical Resistivity	Wcm @ R.T.	ASTM D1829	1014

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