



Cordierite Ceramic Honeycom

Nextgen Cordierite ceramic honeycomb, made of silicate ceramic (Mg2Al4Si5O18), is a commonly used structure ceramic material which has the advantages of energy-efficiency and high-temperature resistance. Nextgen Advanced Materials supplies Cordierite ceramic honeycombs 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 Honeycomb. Cordierite ceramic honeycomb is made of silicate ceramic (Mg2Al4Si5O18). Cordierite is a commonly used structure ceramic material which has the advantage of energy-efficiency and high-temperature resistance. Cordierite honeycomb 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 Honeycomb 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
Water Absorption	% @R.T.	ASTM C373	0.02 - 3.2
Hardness	Moh's	_	7

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Dielectric Strength

Electrical Resistivity

Nextgen Advanced Materials INC www.nexgematerials.com Hardness knoop (kg/mm2) Knoop 100g Mechanical MPa @ R.T. ASTM C773 Compressive Strength 350 ACMA Test Tensile Strength MPa @ R.T. 25.5 #4 Modulus of Elasticity GPa ASTM C848 70 (Young's Mod.) Flexural Strength (MOR) MPa @ R.T. ASTM F417 117 ASTM C818 0.21 Poisson's Ratio, u Notched Fracture Toughness, KIc MPa x m1/2 Beam Test **Thermal** Max. Use Temperature οС No load cond. 1371 (* denotes inert atm.) Thermal Shock Resistance DT (°C) Quenching 500 Thermal Conductivity W/m-K @ R.T. ASTM C408 3.0 Coefficient of Linear Thermal mm/m-°C (~25°C 1.7 ASTM C372 Expansion, al through ±1000°C) 0.35 Specific Heat, cp cal/g-⁰C @ R.T. ASTM C351 **Electrical** 1MHz @ R.T. ASTM D150 |4.7 Dielectric Constant kV/mm

Wcm @ R.T.

ASTM D116 5.11

ASTM D1829 1014

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