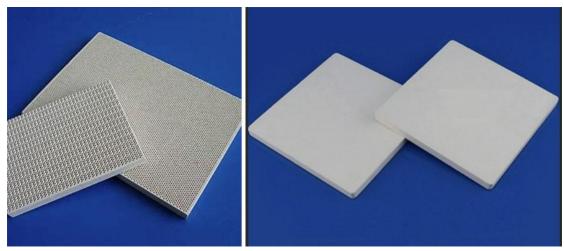


Cordierite Ceramic Plate

Nextgen Cordierite ceramic plate, made of silicate ceramic cordierite (Mg2Al4Si5O18), features the advantage of energy-efficiency and high-temperature resistance. Nextgen Advanced Materials supplies Cordierite ceramic plates with high quality and fast delivery, and customized products are also available.

Product Description

You can rest assured to buy customized Nextgen Cordierite Ceramic Plate from us. We look forward to cooperating with you, if you want to know more, you can consult us now, we will reply to you in time! Cordierite ceramic plate is made of silicate ceramic cordierite (Mg2Al4Si5O18). Cordierite is a commonly used structure ceramic material that has the advantage of energy-efficiency and high-temperature resistance. Cordierite plate is widely used on a barbeque grill, burn oven, convection oven, gas oven, rotary oven, natural gas heater, space heater crucible, and various heating equipment, etc.



Cordierite Plate 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		

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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-⁰C @ 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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