Mullite Ceramic Heater Plate

You can rest assured to buy Nextgen Mullite Ceramic Heater Plate from our factory and we will offer you the best after-sale service and timely delivery. Mullite heater plate, made of silicate ceramic mullite (3Al2O32SiO2), is a refractory oxide material showing low thermal expansion, good mechanical strength, and resilience at elevated temperatures. Nextgen Advanced Materials supplies Mullite Heater Plates with high quality and fast delivery, and customized products are also available.

Product Description

You can rest assured to buy customized Nextgen Mullite Ceramic Heater 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! Mullite heater plate is made of silicate ceramic mullite (3Al2O32SiO2). Mullite is a refractory oxide material combining low thermal expansion, good mechanical strength, and resilience at elevated temperatures. Raw mullite materials are easily obtained and are reasonably priced. It is certainly one of the most important oxide materials for both conventional and advanced ceramics. Its workability allows an extensive range and flexibility in fabrication.

Mullite Heater Plate Specifications

Chemistry Content	Al2O3	SiO2	TiO2	Fe2O3	CaO·MgO	K2ONa2O, etc.
	62.50%	34.50%	0.10%	0.80%	0.90%	1.30%
	Units of Measure				SI/Metric	(Imperial)

	gm/cc (lb/ft3)	2.8	-175
Mechanical	% (%)	0	0
Density	–	off-white	off-white
Porosity	MPa (lb/in2x103)	180	-26
Color	GPa (lb/in2x106)	151	-22
Flexural Strength	GPa (lb/in2x106)	–	–
Elastic Modulus	GPa (lb/in2x106)	–	–
Shear Modulus	MPa (lb/in2x103)	1310	-190
Bulk Modulus	Kg/mm2	1070	–
Compressive Strength	MPa•m1/2	2	–
Hardness	°C (°F)	1650	-3000
Fracture Toughness KIC	°C (°F)	1650	-3000
Maximum Use Temperature	°C (°F)	1650	-3000
(no load)	W/m•°K (BTU•in/ft2•hr•°F)	6	-42
Thermal	10–6/°C (10–6/°F)	5.4	-3
Thermal Conductivity			
Coefficient of Thermal Expansion	ac-kv/mm (volts/mil)	9.8	-245
Electrical	@ 1 MHz	5.8	5.8
Dielectric Strength	@ 1 kHz	0.003	0.003
Dielectric Constant	ohm•cm	>1013	>1013
Dissipation Factor			
Volume Resistivity			