



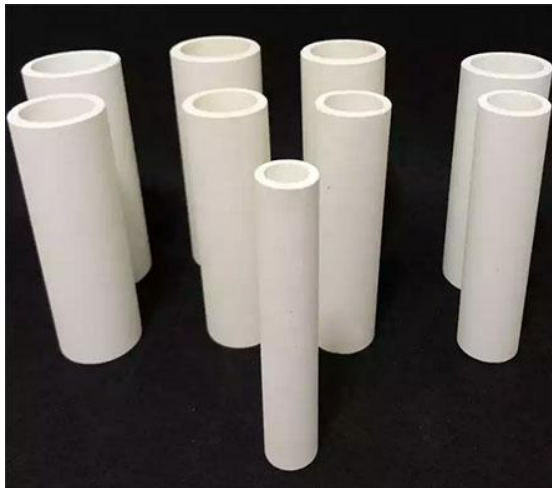
Mullite Ceramic Heating Protection Tube

You can rest assured to buy Nextgen Mullite Ceramic Heating Protection Tube from our factory. Mullite heating protection tube, made of silicate ceramic mullite, is a refractory oxide material showing low thermal expansion, good mechanical strength, and resilience at elevated high temperatures. Nextgen Advanced Materials supplies Mullite heating protection tubes 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 Mullite Ceramic Heating Protection Tube. And we will offer you the best after-sale service and timely delivery. Mullite heating protection tube is made of silicate ceramic mullite. Mullite is a refractory oxide material combining low thermal expansion, good mechanical strength, and resilience at elevated high 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. It is well suited for the casting of special shapes and larger tubes.



Mullite Heating Protection Tube Specifications

Chemistry Content	Al ₂ O ₃	SiO ₂	TiO ₂	Fe ₂ O ₃	CaO·MgO	K ₂ O·Na ₂ O, etc.
	62.50%	34.50%	0.10%	0.80%	0.90%	1.30%
Mechanical	Units of Measure				SI/Metric	(Imperial)
Density	gm/cc (lb/ft ³)				2.8	-175

Porosity	% (%)	0	0
Color	–	off-white	off-white
Flexural Strength	MPa (lb/in ² x10 ³)	180	-26
Elastic Modulus	GPa (lb/in ² x10 ⁶)	151	-22
Shear Modulus	GPa (lb/in ² x10 ⁶)	–	–
Bulk Modulus	GPa (lb/in ² x10 ⁶)	–	–
Compressive Strength	MPa (lb/in ² x10 ³)	1310	-190
Hardness	Kg/mm ²	1070	–
Fracture Toughness KIC	MPa•m ^{1/2}	2	–
Maximum Use Temperature (no load)	°C (°F)	1650	-3000
Thermal			
Thermal Conductivity	W/m•°K (BTU•in/ft ² •hr•°F)	6	-42
Coefficient of Thermal Expansion	10–6/°C (10–6/°F)	5.4	-3
Electrical			
Dielectric Strength	ac-kv/mm (volts/mil)	9.8	-245
Dielectric Constant	@ 1 MHz	5.8	5.8
Dissipation Factor	@ 1 kHz	0.003	0.003
Volume Resistivity	ohm•cm	>10 ¹³	>10 ¹³