



Zirconia Rod

You are welcomed to come to our factory to buy the latest selling, low price, and high-quality Nextgen Zirconia Rod. Zirconia ceramic rod shows low thermal conductivity and excellent chemical inertness and corrosion resistance at high temperature. Nextgen Advanced Materials supplies Zirconia ceramic rods with high quality and fast delivery, and customized products are

also available.

Product Description

You can rest assured to buy customized Nextgen Zirconia Rod from us. our product has been well accepted more than 20 countries, like USA, Canada, UK, Australia etc countries. Zirconia Ceramic Rod shows low thermal conductivity and can be used as electrical conductors above 800 centigrade degrees, it has excellent chemical inertness and corrosion resistance at high temperature of 2,200 centigrade degrees.



Technical Parameters

Properties	Units	Value
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Density	g/cm ³	6.04
Color	-	white
Water Absorption	% @R.T.	0.0
Hardness	Moh's	6.5
Hardness	knoop (kg/mm ²)	1600
Compressive Strength	MPa @ R.T.	2500
Tensile Strength	MPa @ R.T.	248
Modulus of Elasticity (Young's Mod.)	GPa	207
Flexural Strength (MOR)	MPa @ R.T.	900
Fracture Toughness, K _{Ic}	MPa x m ^{1/2}	13.0
Max. Use Temperature (* denotes inert atm.)	°C	2400
Thermal Shock Resistance	DT (°C)	280 - 360
Thermal Conductivity	W/m-K @ R.T.	2.7
Coefficient of Linear Thermal Expansion, α	mm/m-°C (~-25°C through ±1000°C)	11.0
Specific Heat, cp	cal/g-°C @ R.T.	0.10
Dielectric Constant	1MHz @ R.T.	26 @100kHz
Dielectric Strength	kV/mm	9.0
Electrical Resistivity	Wcm @ R.T.	>1013