



### Zirconia Tube

You can rest assured to buy customized Nextgen Zirconia Tube from us. Our focus is on maintaining a high level of professionalism, service, and quality. Zirconia ceramic tubes shows low thermal conductivity and excellent chemical inertness and corrosion resistance at high temperature. Nextgen Advanced Materials supplies Zirconia ceramic 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 Zirconia Tube. We do everything we can to add value to our customers' experiences, allowing us to be their best option. Zirconia ceramic tubes offer 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
Density	g/cm <sup>3</sup>	6.04
Color	-	white
Water Absorption	% @R.T.	0.0
Hardness	Moh's	6.5
Hardness	knoop (kg/mm <sup>2</sup> )	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 <sub>Ic</sub>	MPa x m <sup>1/2</sup>	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 <sub>l</sub>	mm/m-°C (~25°C through ±1000°C)	11.0
Specific Heat, c <sub>p</sub>	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.	>10 <sup>13</sup>