

4.1 Large Diameter Quartz Glass Tube for Semiconductor

Product Description

High purity: $Sio_2 > 99.99\%$.

Operating Temperature: 1250°C; Soften Temperature: 1730°C.

Excellent visual and chemical performance: acid-resistance, alkali resistance, Good thermal stability

Health care and environmental protection.

No air bubble and no air line. Excellent electrical insulator. CE, RoHs, SGS approved.

Specification Range

OD 100MM-800MM, wall thickness and length to fully meet customers requirement.

III. Material: High purity quartz sand

Chemical composition (unit: ppm)

AL	Fe	K	Na	Li	Ca	Mg	Cu	Mn	Pb	В	Ti
20	1.0	3.5	3.5	1.0	2.0	0.5	0.3	0.5	< 0.01	< 0.2	2.0

IV. Physical Properties

Mechanical Property	Reference Value	Mechanical Property	Reference Value	
Density	2.203g/cm	Refractive Index	1.45845	
Compressive Strength	>1100Mpa	Coefficient of thermal expansion	5.5×10/°C	
Bending Strength	67Mpa	Hot work temperature	1750~2050°C	
Tensile Strength	48.3Mpa	Instantaneous temperature	1300°C	
Poisson's Ratio	0.14~0.17	Continuous temperature	1100°C	
Elastic Modulus	71700Mpa	Resistivity	7×107Ω.cm	
Shearing Modulus	31000Mpa	Dielectric Strength	250~400Kv/cm	
Moths Hardness	5.3~6.5(Moths	Dielectric Constant	3.7~3.9	
	Scale)			
Deformation Point	1280°C	Dielectric absorption coefficient	<4×10 4	
Specific Heat(20~350°C)	670J/Kg°C	Dielectric loss coefficient	<1×10 ⁴	
Thermal	T1.4W/m°C	Typical Mechanical Property of	Fused Quartz	
Conductivity(20°C)				





















V. Application

Bio-Industry, Chip Manufacturing, Nano-Carbon Materials , Screen Substrate, Optical Fiber, Space Aeronautical Equipment, High-Purity Metallurgical Chemical Equipment Components, etc.























