

Fused Silica Translucent Tube – Technical Datasheet

MicroQsil Fused Silica Translucent Tubes are high-purity synthetic quartz glass (SiO_2 u 99.99%), offering superior resistance to high temperatures, chemical corrosion, and thermal shock. The translucent finish ensures excellent light diffusion, ideal for infrared heaters, semiconductor furnaces, and UV curing systems.

Property	Specification / Value
Material Composition	High Purity Fused Silica (Amorphous SiO_2 u 99.99%)
Appearance	Translucent (Milky / Frosted White)
Melting Point	1730°C
Max Continuous Service Temp.	1100°C – 1200°C
Coefficient of Thermal Expansion	$5.5 \times 10^{-7} / ^\circ\text{C}$ (20–1000°C)
Thermal Conductivity	1.38 W/m·K (at 100°C)
Softening Point	1665°C
Annealing Point	1215°C
Density	2.20 g/cm ³
Transmission Range	190 nm – 2500 nm (UV to IR)
Refractive Index	1.46 @ 589 nm
Chemical Resistance	Excellent against acids and oxidizing agents; not resistant to HF and strong alkalis
Electrical Resistivity	$7 \times 10^7 \Omega \cdot \text{m}$ at 250°C
Standard Dimensions	Up to 50mm OD, Length up to 3000 mm
End Type	Both Ends Open / One End Closed
Customization	Available on request (dimensions, tolerances, and surface finish)

Micro Scientific Glass Co. • Manufacturer of High-Purity Quartz Glass Components
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