

Transparent Fused Quartz Glass Tubing

The fused quartz glass tube has typical characteristics of high purity, good spectral transmission, and lower OH. It serves as the first choice of heat resistant material for halogen lamps, mercury lamps, metal halide lamps and other quartz lamps. We supply clear quartz glass tubing with outer diameter (OD) of 2 – 200 mm and wall thickness (WT) of 0.5 – 10 mm. Glass tubing processing of trim cutting, fire polishing, bending and pinching can be done according to the requirement of customers. The OH-content in the glass can be controlled within 2 – 20 ppm according to the requirement of customers.



Properties of clear fused quartz glass

Density (g/cm ³)	2.2
Coefficient of thermal expansion (ppm/°C)	0.55
Softening point (°C)	1670
Annealing point (°C)	1210
Strain point (°C)	1110
Young's modulus (MPa)	0.73

Dimension tolerance of clear fused quartz glass tubing

OD Range (mm)	OD	WT	Siding	Ovality	Bow (mm) for length of 1.2m
≤ 6	±2.0%	±10%	12%	2.00%	2.5
15-Jun	±1.25%	±8%	10%	1.50%	2.5
15 - 20	±1.25%	±10%	15%	1.50%	2.5
20 - 25	±1.25%	±10%	15%	1.50%	3
25 - 30	±1.35%	±12%	15%	1.50%	3
30 - 80	±1.5%	±14%	15%	2.00%	3

Impurities in clear fused quartz glass

Elements	Cr	Ge	Fe	Mg	Ti	Ca	Al	Na	Li	K
Concentration (ppm)	0.1	0.4	1.5	0.4	0.1	0.8	16	2.3	0.5	2

Spectral transmission of clear fused quartz glass (Thickness 1mm)

Wavelength (nm)	220	255	280	315	350	380	590	780
Transmission(%)	89	91	93	93	93	93	93.2	93.4