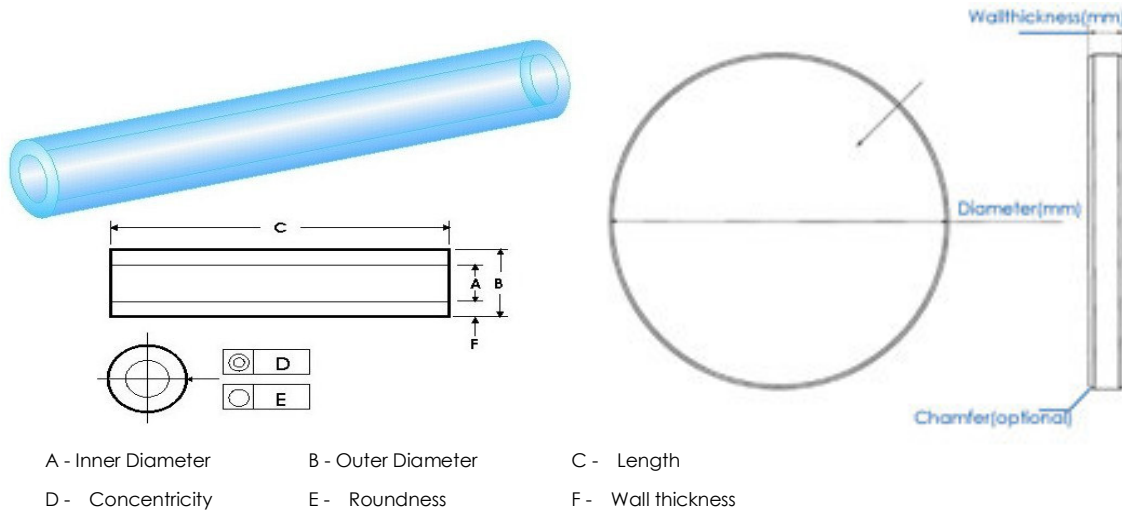


Clear Fused Quartz Properties

Used Electric Furnace drawing, accord with International standard. Full length of transparent Quartz Tube, Quartz rod, Quartz plate and Quartz disc.



The high purity quartz products, used our own mine, high quality nature crystal as the raw material, go thru advanced technic. At UV wave band 185nm, the wavelength through average about 70%, it is the best material for ozone-free sterilize lamp or sleeve quartz glass tubing. At UV wave band 253.7nm, the wavelength through rate average > 85%, be propitious to Ozone sterilize lamp or sleeve quartz glass tubing.

Typical Trace Element Compositions (PPM by weight):

Type	Al	Fe	Ca	Mg	Ti	Mn	B	K	Na	Li	OH
A	15	0.21	0.5	<0.1	0.8	<0.05	0.08	0.6	0.8	0.7	<120
B	15	0.21	0.5	<0.1	0.8	<0.05	0.08	0.6	0.8	0.7	<10
C	15	0.21	0.5	<0.1	0.8	<0.05	0.08	0.6	0.8	0.7	<5

Type A

Clear Fused Quartz Tube

Low OH content, industry standard quartz material, widely use in halogen, ultraviolet lamps, thermocouples and other high temperature products.

Standard Size & Tolerance (Tube) :

Size(mm)	OD(mm)	W.t.(mm)	Length(mm)	Siding Max	Bow Max	Oval Max
<15	±0.15	±0.10	±1.0	0.1	0.15	2‰
15-30	±0.25	±0.15	±1.0	0.13	0.25	2‰
30-50	±0.50	±0.15	±1.0	0.15	0.5	2‰
50-70	±1.50	±0.20	±1.0	0.2	0.7	3‰
70-120	±2.00	±0.25	±1.0	0.2	1	4‰

Type B :

Low Ozone Quartz Tube:

Colorless on surface, cut ends appear as light purple color. This product able to stop the ultraviolet radiation before 220nm, and 253.7 nm ultraviolet radiation wavelength through rate as above 70%. This wave length ultraviolet radiation has strongest disinfectant, we name as sterilize or ozone free quartz tubing. Widely apply to sterilization, water treatment etc.

OD(mm)	W.t(mm)	Length(mm)
12±0.2	1±0.1/0.2	0—1600
15±0.3	1±0.1/0.2	0—1600
19±0.3	1.2±0.2/0.3	0—1600
25±0.5	1.3±0.3	0—1600

Type C

Filter UV Quartz Tube:

Apply to prevent human or matter from ultraviolet radiation and high temperature resistant lamp.

Size(mm)	OD(mm)	W.t.(mm)	Length(mm)	Siding Max	Box Max	Oval Max
8-12	±0.30	±0.10	±1.0	0.15	0.2	2‰
12-15	±0.40	±0.15	±1.0	0.2	0.3	2‰
15-20	±0.50	±0.15	±1.0	0.2	0.4	2‰

Wavelengththrough (%) (thickness: 1mm)

Wavelenth(nm)	wavelength through (%)	wavelength through (%)	wavelength through (%)
Type	A	B	C
170	30	0	0
180	40	0	0
190	55	0	0
200	60	0	0
220	84	0	0
240	89	44	1
260	91	86	3
280	92	90	0
300	92	91	0
320	92	91	0
340	92	92	5
360	92	92	26
380	92	92	65
400	92	92	81
420	92	92	88
440-2000	92	92	91
2500	92	92	92
2730	90	90	90
3000	91	91	91
3500	88	88	88
4000	73	73	73
4500	35	35	35

- **Fused Quartz Standard Specification:**

Airline

- Open to O.D. or I.D. - None Permitted
- Closed - Disregard if Diameter or width \leq 0.2mm
- 0.2 mm Max. Width
- 305.0mm Max. Length
- .2 x Tube length = Max. Aggregate Length

Inclusions

- Expose on I.D. - None permitted
- Expose on O.D. - 0.5 mm Max. Dimension
- And within wall - 5.0 max. No. per tube

Scratches

- Narrow Lines of Abrasion \leq 0.3mm wide
- Length - aggregate - limit = 1/2 tube length
- Circumference - limit = 1 x tube circumference
- Max. width = 0.2mm Max. Length = 152 mm Each

Checks

- Small fissures into products as seen by bright reflections with end lighting --- none allowed

Cut Quality

- Cracks not Allowed
- Slant cut - 1.5 mm Max. from plane perpendicular to products axis
- Chips - Max. 1/2 wall thickness
- Max. chip size = 1mm x 2mm

- **Optical Properties**

Fused Quartz Transmission Curves

* Sample thickness 1.5mm

* Includes Surface reflection Losses

