



Too hard to beat!

**Solar
Grade S**

DATASHEET

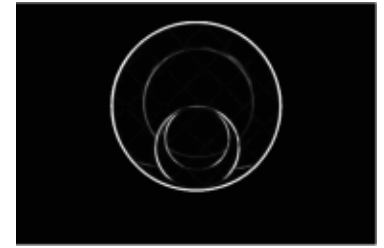
SOLAR GRADE QUARTZ TUBE

I. Application

Solar grade quartz tube is used as the base material for quartz components of diffusion and PE process in solar cell manufacturing.

II. Characteristics

Solar grade quartz tube features high purity, low hydroxyl, etc.



IV. TYPICAL SIZE

OD Range	OD Tolerance	WT Tolerance	Siding	Ovality	Bow
OD < 100.00	±1.00	±10.00%	20.00%	1.00%	0.10%
100.00 ≤ OD <	±1.00	±10.00%	20.00%	1.00%	0.10%
200.00 ≤ OD < 300.00	±1.00	±10.00%	20.00%	1.00%	0.10%
300.00 ≤ OD < 400.00	±1.00	±10.00%	20.00%	1.00%	0.10%
400.00 ≤ OD < 500.00	±1.00	±10.00%	20.00%	1.00%	0.10%
500.00 ≤ OD < 900.00	±2.00	±10.00%	20.00%	1.00%	0.10%

V. PHYSICAL & CHEMICAL PROPERTIES I. TRACE ELEMENTS

Code	Criteria	Al	Ca	Cr	Cu	Fe	K	Li	Mg	Mn	Na	Ti	Zr
	Typical	16.2	1	<0.05	<0.05	0.5	1.2	0.9	0.2	<0.05	1.1	1.5	1
	Maximum	25	1.5	0.1	0.1	1	1.5	1.5	0.2	0.2	2	4	2

II. OH CONTENT

TYPE-S	OH < 10 ppm	TYPE-S-R	OH < 30 ppm
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III. PHYSICAL PROPERTIES

Item	Index Value
Density (g/cm ³)	2.2
Heat Conductivity (w/m·k, 1000°C)	2.28
Coefficient of Thermal Expansion (°C ⁻¹ , 1000°C)	5.5x10 ⁻⁷
Softening Point (°C)	1670
Annealing Point (°C)	1210
Strain Point (°C)	1110