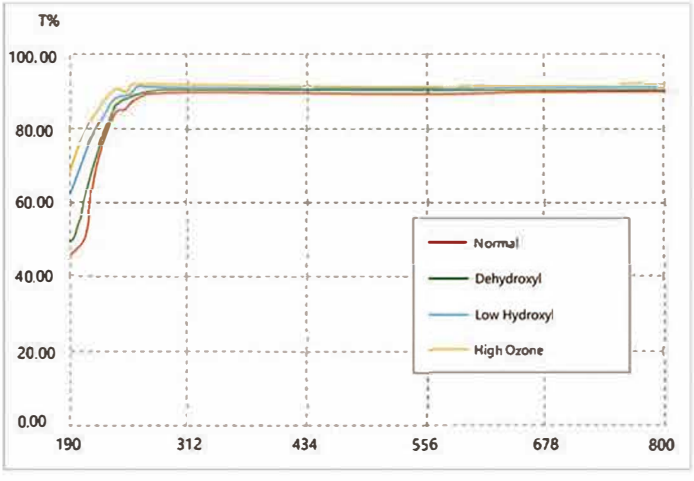
Clear Quartz Glass Tube

Clear Quartz Glass Tube OD range 2.2mm-120mm, SiO_2>99.95%, excellent visual and chemical performance, highthermo-stability, anticorrosive. Transmittance of visible light>90%. Dehydroxylation available upon customer's request, OH content less than 50ppm, 20ppm, 15ppm, 10ppm, 5ppm, 2ppm or 1ppm.

Name	ID	Glass Type	OH (ppm)	UV transmittance(%) 190nm	UV transmittance(%) 253.7nm	Type comparison	Typical Application
Normal	QT600	EN09 UB	≤150	≥40	≥87	unbaked,GE214,PH300/308,Ovisil451	Halogen,germicidal with ozone lamps,heater etc
Dehydroxyl	QT601	EN09 NB	≤50	≥40	≥87	baked,GE214,PH300/308,Ovisil451	
	QT602	EN08 NB	≤20	≥40	≥87	baked,GE214,PH300/308,Ovisil452	Mercury lamps,germicidal lamps, heater etc
	QT603	EN09 EB	≤15	≥40	≥87		
	QT604	EN08 EB	≤10	≥40	≥87	baked,GE214,PH300/308MD,Ovisil452	
Low hydroxyl	QT605	EN07 NB	≤5	≥63	≥87	GE214,PH300/308ND,Ovisil452	Metal halide lamps and other applications requiring hydroxyl free material
	QT606	EN07 EB	≤2	≥63	≥87	GE214,PH300/308ED,Ovisil451	
	QT607	EN08 SB	≤1	≥65	≥88	GE214,PH300/308SD,Ovisil451	
	QT608	EN07 SB	≤1	≥68	≥89		High rate of transmittance and hydroxyl free metal halide lamps etc
High Ozone	QT610	EN07 UB	≤150	≥68	≥89	GE214A,PH300/308,Ovisil451	High rate transmittance of high ozone germicidal lamps etc
	QT611	EN07 NB	≤15	≥68	≥89		
	QT612	EN07 SB	≤1	≥68	≥89	GE214A,PH300/308SD,Ovisil451	Low Hydroxyl of high ozone germicidal lamps etc

Unit : nm



Unit : nm

Transmittance Rate: (Tested at 1.0mm Thickness)	190	253.7	312	312-800
Normal	40	87	91	91-92
Dehydroxyl	45	87	91	91-92
Low hydroxyl	63	88	91	91-92
High Ozone	68	89	91	91-92

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Chemical Composition

Glass Type	Sand Type	Character	Al	Li	K	Na	Ca	Fe	Ti	Mg	Cu	B	SiO_2
EN07 PN07	American Sand	Clear	14	0.9	0.6	0.9	0.4	0.23	0.6	0.05	0.05	0.08	99.99%
EN08 FN08	Chinese Sand African crystal	Clear	17.4	1.7	0.4	1.1	0.8	0.3	2.8	0.1	0.1	0.2	99.98%
EN09	Chinese Sand	Clear	23.2	2	5.4	6.1	3.1	4.8	2	2.5	0.5	0.3	99.95%

Physical Properties

Property	Typical values	Property	Typical Values
Softening Point	1680℃	Coefficient of thermal expansion (20 - 320 ℃)	5.7×10^{-7} cm / cm.℃
Annealing Point	1210℃	Thermal Conductivity (20℃)	1.4 W / m.℃
Strain Point	1120℃	Design Compressive Strength	1.1×10^{9} N/m²
Density	2.2g/cm³	Electrical Resistivity (350℃)	7×10^{7} ohm.cm
Hardness	5.5-6.5Mohs'	Design Tensile Strength	4.8×10^{7} N/m²
Dielectric Constant	3.75	Dielectric Strength	5×10^{7} V/m
Specific Heat (20℃)	670 J / Kg.℃	Poisson Ratio	0.17

Dimension Tolerance (Other tolerances are available upon request)

OD range(mm)	OD Tolerance	WT Tolerance	Siding	Out of Round	Bow
OD<10	±2.00%	±10.00%	12.00%	2.00%	0.15%
10≤OD≤20	±1.25%	±8.00%	10.00%	±1.25%	0.15%
20≤OD≤50	±1.25%	±10.00%	15.00%	±1.25%	0.15%
50≤OD≤120	±1.25%	±10.00%	15.00%	±1.25%	0.15%