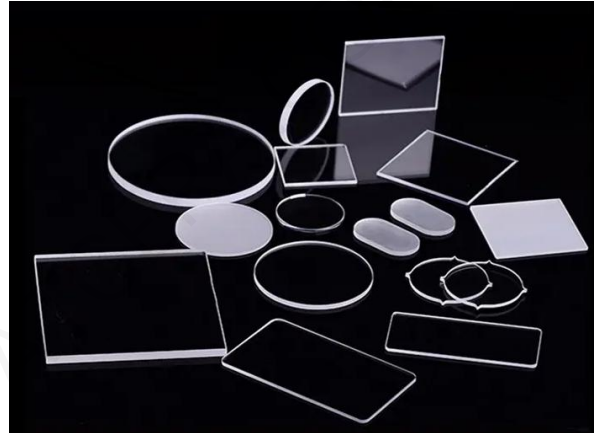
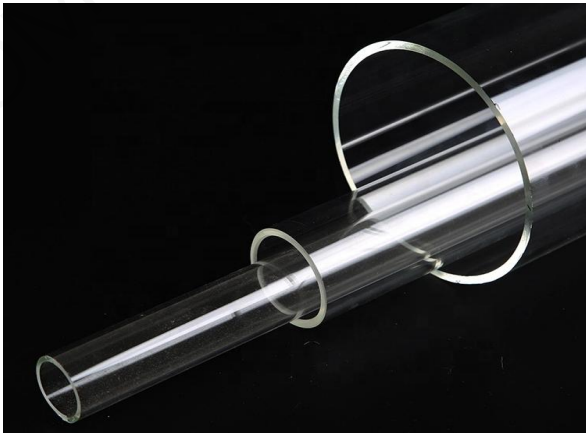
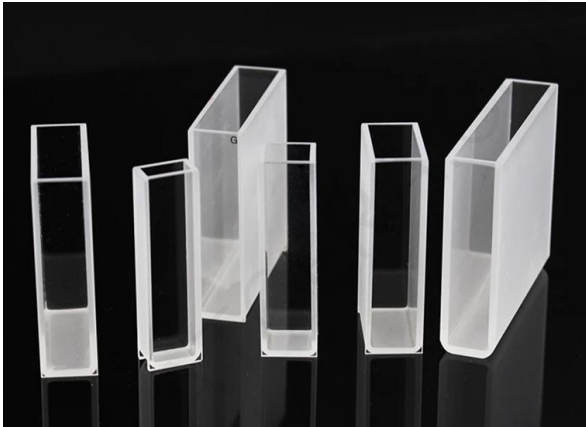


ATCERA Quartz Product Catalogue



One Stop Service of Advanced Ceramic and Quartz Products

WWW.ATCERA.COM

Company Introduction

Hunan ATCERA Co. Ltd.



HUNAN ATCERA CO.,LTD is founded in 2003, located in Changsha, Hunan, China. At present, ATCERA has established three automatic production lines, with around 150 employees, including more than 20 technical engineers. the main products include ceramic substrate, ceramic tube & rod, ceramic ball, ceramic crucible, ceramic shaft, ceramic needle, ceramic tube sleeve, ceramic plunger, ceramic arm, ceramic valve and various quartz products.

During the past 20+ years, ATCERA has produced more than 2000 types precision ceramic products. Besides our own factory, we have more than 20 collaboration factories, focus on the material of alumina ceramics, zirconia ceramics, silicon carbide ceramics, boron carbide ceramics, silicon nitride ceramics, boron nitride ceramics, quartz, etc., and aim to provide one-stop service for your advanced ceramic product request.

www.atcera.com

Content-Quartz Product

Hunan ATCERA Co. Ltd.

Quartz Crucible	2
Quartz Tube	4
Quartz Plate	6
Quartz Rod	9
Quartz Cuvette	11
Quartz Transparent Crucible	12
Quartz Tank	15
Quartz Wafer Boat	16
Quartz Wafer Boat Carrier	17
Quartz Laser Cavity Filter	18
Quartz Sight Glass	19
Quartz Infrared Heating Tube	20
Other Quartz Products	21

Quartz Crucible

Hunan ATCERA Co. Ltd.

Features

- ◆ Arc fused, high purity, no contamination
- ◆ High temperature resistance, working temperature up to 1600°C
- ◆ Excellent thermal shock resistance
- ◆ Stable performance and long service life under high temperature



Specification

Purity: ≥99.995%, The upper limit of impurity element content is as follows (unit:μg/g)

Fe	Mg	Mn	K	Li	Co	Ni	Cu	Na	B	Ti	Ca	Ai
1.2	0.4	0.1	2	0.5	<0.02	0.03	0.57	2.3	0.8	0.1	0.8	16

Physical parameters

Density	Mohs hardness	Compressive strength	Tensile strength	Bending strength
2.21g/cm ³	6.5	1100MPa	50MPa	67MPa

Thermal expansion coefficient (10 ⁻⁷ /°C)	100°C	300°C	500°C	900°C	1100°C
	5.11	5.92	5.65	5.52	5.48

Thermal conductivity W/(m*°C)	20°C	100°C	200°C	300°C	400°C	950°C
	1.38	1.47	1.55	1.67	1.84	2.68

Specific heat capacity J/(Kg*°C)	20°C	100°C	500°C	900°C
	690	772	964	1052

Electrical parameters

dielectric constant (ε)	20°C	20°C	28°C
	3.7	3.77	3.81

electrical resistivity (ohm*cm)	20°C	400°C	800°C	1200°C
	10 ¹⁶	10 ¹⁰	6.3*10 ⁶	1.3*10 ⁵

Note: The parameters above may have slight deviations due to the difference in forming and sintering processes.

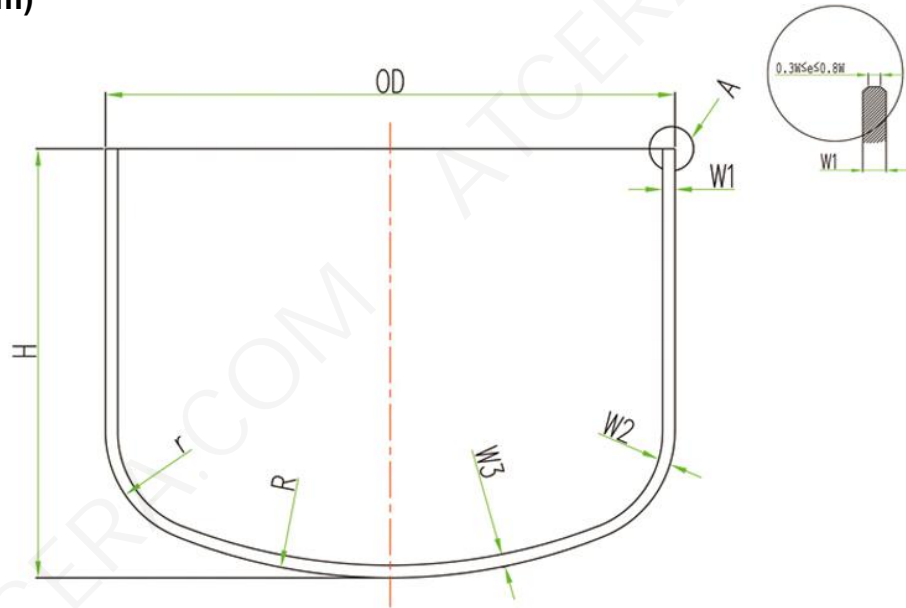
Applications

- ◆ monocrystalline silicon growth process in semiconductor and photovoltaic industries
- ◆ material melting and burning test

Quartz Crucible

Hunan ATCERA Co. Ltd.

Dimension (mm)



Model	Size(inch)	OD (mm)	Height(mm)	Thickness T(mm)			R(mm)	r(mm)	Gap(mm)
				W1	W2	W3			
AT-SY-GG1001	14	355.6 ± 2.0	Customized	8.5 ± 2.0	10.5 ± 2.0	8.5 ± 2.0	381	89	≤5
AT-SY-GG1002	16	406.5 ± 2.5		9.0 ± 2.0	11.0 ± 2.0	9.0 ± 2.0	406	76	
AT-SY-GG1003	18	457.0 ± 2.5		9.5 ± 2.0	11.5 ± 2.0	9.5 ± 2.0	500	120	
AT-SY-GG1004	20	505.0 ± 3.0		10.0 ± 2.0	11.0 ± 2.0	10.0 ± 2.0	508	90	
AT-SY-GG1005	22	555.0 ± 3.0		11.0 ± 2.0	12.0 ± 2.0	11.0 ± 2.0	558	130	
AT-SY-GG1006	24	607.0 ± 3.0		12.0 ± 2.0	13.0 ± 2.0	12.0 ± 2.0	609	120	
AT-SY-GG1007	25	632.0 ± 3.0		11.0 ± 2.0	11.0 ± 2.0	14.0 ± 2.0	635	120	
AT-SY-GG1008	26	655.0 ± 3.0		12.0 ± 2.5	14.5 ± 2.5	12.0 ± 2.5	669	120	
AT-SY-GG1009	28	710.0 ± 3.0		12.0 ± 2.5	16.0 ± 2.5	12.0 ± 2.5	710	120	
AT-SY-GG1010	30	758.0 ± 3.0		13.5 ± 2.0	13.5 ± 2.0	19.0 ± 3.0	760	120	
AT-SY-GG1011	32	810.0 ± 3.0		14.0 ± 2.5	23.0 ± 2.5	14.0 ± 2.5	810	160	
AT-SY-GG1012	36	912.0 ± 3.0		18.0 ± 2.5	26.0 ± 2.5	18.0 ± 2.5	910	180	
AT-SY-GG1013	40	1016.0 ± 3.0		20.0 ± 3.0	30.0 ± 3.0	20.0 ± 3.0	1016	186	

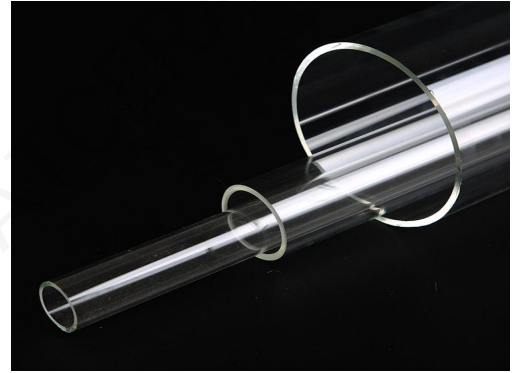
Note: Dimension may be revised without further notice, therefore the buyer shall confirm dimension with ATCERA before releasing purchase order.

Quartz Tube

Hunan ATCERA Co. Ltd.

Features

- ◆ High temperature resistance, excellent thermal shock performance
- ◆ Good optical performance, high light transmittance
- ◆ Good corrosion resistance, long service life



Specification

Item	Unit	Value
Density	g/cm ³	2.2
Tensile strength	MPa	48
Elastic Modulus	GPa	72
Poisson's ratio	/	0.14-0.17
Compressive strength	MPa	1100
Bending strength	MPa	67
Moh's hardness	/	5.5-6.5
Maximum working temperature (long-term)	°C	1100
Maximum working temperature (short-term)	°C	1350
Thermal conductivity	W/m*K	1.4
Refractive index	/	1.4585
Thermal expansion coefficient	/°C	5.5*10 ⁻⁷
Specific resistance	Ohm*cm	7*10 ⁷

Note: The parameters above may have slight deviations due to the raw material composition, OR difference in forming and sintering processes.

Applications

- ◆ Oxidation and diffusion furnace tube for semiconductor wafer and solar cell production;
- ◆ Light source tubes, such as laser, mercury lamp and tungsten iodide lamp tube;
- ◆ Experimental instruments for chemical testing and biological culture;
- ◆ Photoelectric equipment and optical communication device.

Dimension (the unit is mm unless otherwise noted)

Tube with One End Open

Model	OD	Thickness	Length
AT-QTZ-G1001	0.8	0.3	20-1400
AT-QTZ-G1002	1.5	0.5	20-1400
AT-QTZ-G1003	2.4	0.4	20-1400
AT-QTZ-G1004	3	0.8	20-1400
AT-QTZ-G1005	6	1	20-1400
AT-QTZ-G1006	10	2.2	20-1400
AT-QTZ-G1007	15	5	20-1400
AT-QTZ-G1008	20	8	20-1400
AT-QTZ-G1009	27	6	20-1400
AT-QTZ-G1010	32	4	20-1400
AT-QTZ-G1011	40	2.5	230
AT-QTZ-G1012	40	3	20-1400
AT-QTZ-G1013	50	3	20-1400
AT-QTZ-G1014	50	4	20-1400
AT-QTZ-G1015	60	3	20-1400
AT-QTZ-G1016	60	4	20-1400
AT-QTZ-G1017	60	5	20-1400
AT-QTZ-G1018	80	3	20-1400
AT-QTZ-G1019	80	4	20-1400
AT-QTZ-G1020	80	5	20-1400
AT-QTZ-G1021	100	3	20-1400
AT-QTZ-G1022	100	4	20-1400
AT-QTZ-G1023	100	5	20-1400

Large Diameter Tube

Model	OD	ID	Thickness	Length
AT-SY-XG001	55	50	2.5	1500--2000
AT-SY-XG002	90	83	3.5	
AT-SY-XG003	200	190	5	2000--3500
AT-SY-XG004	330	314	8	
AT-SY-XG005	430	410	10	
AT-SY-XG006	550	520	15	

Note

1. Purity of the quartz tube can reach up to 99.99%;
2. Dimension may be revised without further notice, therefore the buyer shall confirm dimension with ATCERA before releasing purchase order;
3. Please inquire ATCERA if need other size or special-shaped tubes.

Tube with Both Ends Open

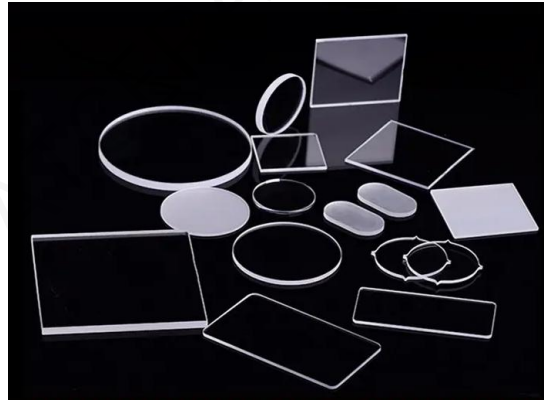
Model	OD	Thickness	Length
AT-QTZ-G2001	0.8	0.3	20
AT-QTZ-G2002	1.5	0.5	30
AT-QTZ-G2003	2.4	0.4	50
AT-QTZ-G2004	3	0.8	50
AT-QTZ-G2005	3	0.09	80
AT-QTZ-G2006	3.6	0.6	80
AT-QTZ-G2007	3.65	0.65	100
AT-QTZ-G2008	4.35	1	150
AT-QTZ-G2009	6	1	150
AT-QTZ-G2010	10	2.2	200
AT-QTZ-G2011	15	5	300
AT-QTZ-G2012	20	8	500
AT-QTZ-G2013	27	6	350
AT-QTZ-G2014	32	4	500
AT-QTZ-G2015	40	3	800
AT-QTZ-G2016	40	3	1000
AT-QTZ-G2017	50	3	450
AT-QTZ-G2018	50	3	500
AT-QTZ-G2019	50	3	600
AT-QTZ-G2020	50	3	700
AT-QTZ-G2021	50	3	800
AT-QTZ-G2022	50	3	1000
AT-QTZ-G2023	50	4	600
AT-QTZ-G2024	50	4	1000
AT-QTZ-G2025	60	3	800
AT-QTZ-G2026	60	3	1000
AT-QTZ-G2027	60	3	1400
AT-QTZ-G2028	60	4	1000
AT-QTZ-G2029	60	5	1000
AT-QTZ-G2030	80	3	1000
AT-QTZ-G2031	80	3	1200
AT-QTZ-G2032	80	4	1000
AT-QTZ-G2033	80	5	1000
AT-QTZ-G2034	100	3	1000
AT-QTZ-G2035	100	3	1200
AT-QTZ-G2036	100	4	1000
AT-QTZ-G2037	100	5	1000

Quartz Plate

Hunan ATCERA Co. Ltd.

Features

- ◆ High temperature resistance, excellent thermal shock performance
- ◆ Good optical performance, high light transmittance
- ◆ Good corrosion resistance, long service life



Specification

Item	Unit	Value
Density	g/cm ³	2.2
Tensile strength	MPa	48
Elastic Modulus	GPa	72
Poisson's ratio	/	0.14-0.17
Compressive strength	MPa	1100
Bending strength	MPa	67
Moh's hardness	/	5.5-6.5
Maximum working temperature (long-term)	°C	1100
Maximum working temperature (short-term)	°C	1350
Thermal conductivity	W/m*K	1.4
Refractive index	/	1.4585
Thermal expansion coefficient	/°C	5.5×10^{-7}
Specific resistance	Ohm*cm	7×10^7

Note: The parameters above may have slight deviations due to the raw material composition, OR difference in forming and sintering processes.

Applications

- ◆ Components for optical instruments and device, such as lenses, prisms, optical windows and filters;
- ◆ Surface acoustic wave filter, crystal oscillator other components for electronics;
- ◆ Sight glass and optical windows for machineries;
- ◆ Experimental instruments for chemical testing and biological culture;

Dimension (the unit is mm unless otherwise noted)

Round Plate

Model	Diameter	Thickness
AT-SY-P1001	2	0.5
AT-SY-P1002	5	0.5
AT-SY-P1003	10	1
AT-SY-P1004	10	2
AT-SY-P1005	12	1
AT-SY-P1006	13	1
AT-SY-P1007	15	1
AT-SY-P1008	15	1.5
AT-SY-P1009	18	2
AT-SY-P1010	19.4	2
AT-SY-P1011	20	1
AT-SY-P1012	20	1.5
AT-SY-P1013	20	2
AT-SY-P1014	24	2
AT-SY-P1015	25	1
AT-SY-P1016	30	1
AT-SY-P1017	30	2
AT-SY-P1018	30	5
AT-SY-P1019	35	2
AT-SY-P1020	36	2.2
AT-SY-P1021	37	7
AT-SY-P1022	40	1
AT-SY-P1023	40	2
AT-SY-P1024	40	5
AT-SY-P1025	41.5	4
AT-SY-P1026	46	2
AT-SY-P1027	46.8	3
AT-SY-P1028	50	1
AT-SY-P1029	50	2
AT-SY-P1030	50	10
AT-SY-P1031	67.5	2
AT-SY-P1032	70	2
AT-SY-P1033	80	2
AT-SY-P1034	90	8
AT-SY-P1035	80	5

Square Plate

Model	Size length	Thickness
AT-SY-P1037	2*2	0.5
AT-SY-P1038	5*5	0.5
AT-SY-P1039	5*5	1
AT-SY-P1040	8*8	2
AT-SY-P1041	10*10	1
AT-SY-P1042	20*20	1
AT-SY-P1043	25*25	1
AT-SY-P1044	30*30	1
AT-SY-P1045	40*40	1
AT-SY-P1046	50*50	0.5
AT-SY-P1047	50*50	1
AT-SY-P1048	50*50	2
AT-SY-P1049	50*50	4
AT-SY-P1050	50*50	5
AT-SY-P1051	60*60	1
AT-SY-P1052	60*60	1
AT-SY-P1053	60*60	3
AT-SY-P1054	60*60	4
AT-SY-P1055	60*60	5
AT-SY-P1056	75*25	1
AT-SY-P1057	75*25	2
AT-SY-P1058	100*100	1
AT-SY-P1059	100*100	2
AT-SY-P1060	100*100	3
AT-SY-P1061	100*100	4
AT-SY-P1062	100*100	5
AT-SY-P1063	100*100	6
AT-SY-P1064	100*100	10
AT-SY-P1065	100*100	8
AT-SY-P1066	200*200	3
AT-SY-P1067	300*300	5

Note

1. Purity of the quartz plate can reach up to 99.99%;
2. Dimension may be revised without further notice, therefore the buyer shall confirm dimension with ATCERA before releasing purchase order;
3. Please inquire ATCERA if need other size or special-shaped plates.

Quartz Plate

Hunan ATCERA Co. Ltd.

Rectangular Plate

Model	Length	Width	Thickness
AT-SY-P1069	5	2	0.5
AT-SY-P1070	8	4	0.5
AT-SY-P1071	10	4	1
AT-SY-P1072	12	5	1
AT-SY-P1073	20	4	1
AT-SY-P1074	30	8	2
AT-SY-P1075	50	20	1
AT-SY-P1076	60	40	5
AT-SY-P1077	80	50	2
AT-SY-P1078	100	60	5
AT-SY-P1079	100	40	0.5
AT-SY-P1080	120	70	0.8
AT-SY-P1081	120	70	1
AT-SY-P1082	120	100	2
AT-SY-P1083	150	60	1
AT-SY-P1084	200	120	5
AT-SY-P1085	200	100	5
AT-SY-P1086	300	100	2

Plate for UV Machines (Ultraviolet transmittance \geq 70%)

Model	Diameter	Thickness
AT-SY-P2026	8	1
AT-SY-P2027	10	1
AT-SY-P2028	15	1.5
AT-SY-P2029	30	1
AT-SY-P2030	50	2
AT-SY-P2031	100	5
AT-SY-P2032	200	10

Plate for UV Machines (Ultraviolet transmittance \geq 70%)

Model	Length*width	Thickness
AT-SY-P2001	10*10	1
AT-SY-P2002	25*25	1
AT-SY-P2003	40*40	1
AT-SY-P2004	60*60	2
AT-SY-P2005	75*25	2
AT-SY-P2006	75*25	2
AT-SY-P2007	100*100	3
AT-SY-P2008	120*120	2
AT-SY-P2009	120*120	3
AT-SY-P2010	150*150	2
AT-SY-P2011	150*150	3
AT-SY-P2012	180*180	2
AT-SY-P2013	180*180	3
AT-SY-P2014	250*250	3
AT-SY-P2016	135*320	3
AT-SY-P2017	150*100	3
AT-SY-P2018	150*200	3
AT-SY-P2019	195*73.8	2
AT-SY-P2020	215*160	4
AT-SY-P2021	220*130	3
AT-SY-P2022	280*150	3
AT-SY-P2023	300*100	3
AT-SY-P2024	300*150	3

Note

1. Purity of the quartz plate can reach up to 99.99%;
2. Dimension may be revised without further notice, therefore the buyer shall confirm dimension with ATCERA before releasing purchase order;
3. Please inquire ATCERA if need other size or special-shaped plates.

Features

- ◆ High temperature resistance, excellent thermal shock performance
- ◆ Good optical performance, high light transmittance
- ◆ Good corrosion resistance and insulativity



Specification

Item	Unit	Value
Density	g/cm ³	2.2
Flexure strength	MPa	48
Elastic Modulus	GPa	72
Poisson's ratio	/	0.14-0.17
Compressive strength	MPa	1100
Bending strength	MPa	67
Moh's hardness	/	5.5-6.5
Maximum working temperature (long-term)	°C	1100
Maximum working temperature (short-term)	°C	1350
Thermal conductivity	W/m*K	1.4
Refractive index	/	1.4585
Thermal expansion coefficient	/°C	5.5*10 ⁻⁷
Specific resistance	Ohm*cm	7*10 ⁷

Note: The parameters above may have slight deviations due to the raw material composition, OR difference in forming and sintering processes.

Applications

- ◆ Used to fabricate optical fibers for communication, medicine, measurement and other fields;
- ◆ Used as catalyst carrier, and produce thermometers, pressure gauges;
- ◆ Optical and chemical experimental instruments

Quartz Rod

Hunan ATCERA Co. Ltd.

Dimension (the unit is mm unless otherwise noted)

Solid Round Rod

Model	Diameter	Length
AT-QTZ-G001	1.8	30
AT-QTZ-G002	2	50
AT-QTZ-G003	2.5	200
AT-QTZ-G004	3	300
AT-QTZ-G005	4.5	150
AT-QTZ-G006	5	600
AT-QTZ-G007	6	700
AT-QTZ-G008	7	400
AT-QTZ-G009	8	635
AT-QTZ-G010	9	720
AT-QTZ-G011	10	55
AT-QTZ-G012	20	102
AT-QTZ-G013	30	50-1400
AT-QTZ-G014	40	50-1400
AT-QTZ-G015	50	50-1400
AT-QTZ-G016	60	50-1400

Half-round Rod

Model	Diameter	Thickness
AT-QTZ-G037	5	50-1400
AT-QTZ-G038	10	50-1400
AT-QTZ-G039	15	50-1400
AT-QTZ-G040	18	50-1400
AT-QTZ-G041	20	50-1400
AT-QTZ-G042	24	50-1400
AT-QTZ-G043	28	50-1400
AT-QTZ-G044	30	50-1400

Rectangular Rod

Model	Width*height	Length
AT-QTZ-G018	3*3	50-1400
AT-QTZ-G019	3*5	50-1400
AT-QTZ-G020	6*6	50-1400
AT-QTZ-G021	6*4	50-1400
AT-QTZ-G022	7*3	50-1400
AT-QTZ-G023	7*7	50-1400
AT-QTZ-G024	8*6	50-1400
AT-QTZ-G025	8.7*6.3	50-1400
AT-QTZ-G026	9.5*9.5	50-1400
AT-QTZ-G027	10*10	50-1400
AT-QTZ-G028	11*8	50-1400
AT-QTZ-G029	13*10	50-1400
AT-QTZ-G030	15*15	50-1400
AT-QTZ-G031	16.5*16.5	50-1400
AT-QTZ-G032	23*16	50-1400
AT-QTZ-G033	25*25	50-1400
AT-QTZ-G034	32*27	50-1400
AT-QTZ-G035	36*30	50-1400
AT-QTZ-G036	40*30	50-1400

Note

1. Purity of the quartz rod can reach up to 99.99%;
2. Dimension may be revised without further notice, therefore the buyer shall confirm dimension with ATCERA before releasing purchase order;
3. Please inquire ATCERA if need other size or special-shaped rods.

Features

- ◆ Good light transmission and wide light transmission range
- ◆ Good corrosion and high temperature resistance
- ◆ Easy clean, re-use available, long service life



Application

- ◆ Used as sample cell for spectral analysis instruments

Dimension (the unit is mm unless otherwise noted)

Model	Optical path (mm)	Dimension H*W*D (mm)	Bottom thickness (mm)	Volume(ul)	Polished windows
AT-SY-M001	1	45 × 12.5 × 3.5	1.5	350	2
AT-SY-M002	2	45 × 12.5 × 4.5	1.5	700	2
AT-SY-M003	3	45 × 12.5 × 5.5	1.5	1050	2
AT-SY-M004	5	45 × 12.5 × 7.5	1.5	1750	2
AT-SY-M005	10	45 × 12.5 × 12.5	1.5	3500	2
AT-SY-M006	10*10	48 × 12.5 × 22.5	2.0	3500	4
AT-SY-M007	20	45 × 12.5 × 22.5	1.5	7000	2
AT-SY-M008	30	45 × 12.5 × 32.5	1.5	10500	2
AT-SY-M009	40	45 × 12.5 × 42.5	1.5	14000	2
AT-SY-M010	50	45 × 12.5 × 52.5	1.5	17500	2
AT-SY-M011	100	45 × 12.5 × 102.5	1.5	35000	2
AT-SY-M012	10	45 × 12.5 × 12.5	1.5	50	2
AT-SY-M013	10	45 × 12.5 × 12.5	1.5	50	2
AT-SY-M014	10	45 × 12.5 × 12.5	1.5	100	2
AT-SY-M015	10	45 × 12.5 × 12.5	1.5	100	2
AT-SY-M016	10	45 × 12.5 × 12.5	1.5	200	2
AT-SY-M017	10	45 × 12.5 × 12.5	1.5	200	2
AT-SY-M018	10	45 × 12.5 × 12.5	1.5	350	2
AT-SY-M019	10*2	45 × 12.5 × 12.5	1.5	50	4
AT-SY-M020	10*2	45 × 12.5 × 12.5	1.5	100	4
AT-SY-M021	10*2	45 × 12.5 × 12.5	1.5	200	4
AT-SY-M022	10*10	45 × 12.5 × 12.5	1.5	3300	4
AT-SY-M023	20*20	21.5 × 23 × 23	1.5	6000	4
AT-SY-M024	30*30	31.5 × 33 × 33	1.5	22500	4
AT-SY-M025	40*40	41.5 × 43 × 43	1.5	56000	4
AT-SY-M026	50*50	52 × 54 × 54	2.0	112500	4

Note

1. Dimension may be revised without further notice, therefore the buyer shall confirm dimension with ATCERA before releasing purchase order;
2. Please inquire ATCERA if need other size or special-shaped cuvettes.

Quartz Transparent Crucible

Hunan ATCERA Co. Ltd.

Features

- ◆ High temperature resistance, excellent thermal shock performance
- ◆ Good optical performance, high light transmittance
- ◆ Good corrosion and insulation resistance



Specification

Item	Unit	Value
Density	g/cm ³	2.2
Tensile strength	MPa	48
Elastic Modulus	GPa	70-75
Poisson's ratio	/	0.14-0.17
Compressive strength	MPa	1100
Bending strength	MPa	67
Moh's hardness	/	5.5-6.5
Maximum working temperature (long-term)	°C	1100
Maximum working temperature (short-term)	°C	1350
Thermal conductivity	W/m*K	1.4
Refractive index	/	1.45-1.46
Thermal expansion coefficient	/°C	5.5-6.7*10 ⁻⁷
Specific resistance	Ohm*cm	7*10 ⁷

Note: The parameters above may have slight deviations due to the raw material composition, OR difference in forming and sintering processes.

Applications

- ◆ Experimental instruments and optical instruments;
- ◆ Analysis and test of metal and non-metallic materials;

Quartz Transparent Crucible

Hunan ATCERA Co. Ltd.

Dimension (the unit is mm unless otherwise noted)

Cylindrical Crucible

Model	Volume (ml)	OD(mm)	Height (mm)	Wall Thickness(mm)
AT-QTZ-A001	0.7	20	4	1.5
AT-QTZ-A002	0.6	12	8	1.5
AT-QTZ-A003	0.9	12	12	1.5
AT-QTZ-A004	0.8	12	10	1.5
AT-QTZ-A005	0.9	20	5	1.5
AT-QTZ-A006	0.7	12	10	1.5
AT-QTZ-A007	1.4	18	8	1.5
AT-QTZ-A008	1.3	11	20	1.5
AT-QTZ-A009	1.6	12	20	1.5
AT-QTZ-A010	1.7	9	40	1.5
AT-QTZ-A011	1.5	13	25	1.5
AT-QTZ-A012	1.3	10	25	1.5
AT-QTZ-A013	5	20	20	1.5
AT-QTZ-A014	2	30	5	1.5
AT-QTZ-A015	6	22	20	1.5
AT-QTZ-A016	3.5	18	18	1.5
AT-QTZ-A017	4	16	28	1.5
AT-QTZ-A018	0.5	15	5	1.5
AT-QTZ-A019	1.2	15	10	1.5
AT-QTZ-A020	2.6	15	20	1.5
AT-QTZ-A021	3.7	17	21	1.5
AT-QTZ-A022	5.2	14	44	1.5
AT-QTZ-A023	6	32	10	2
AT-QTZ-A024	2	10	40	2
AT-QTZ-A025	6	15	50	2
AT-QTZ-A026	8	28	17	2
AT-QTZ-A027	6	35	8.5	2
AT-QTZ-A028	7	16	50	2

Model	Volume (ml)	OD(mm)	Height (mm)	Wall Thickness(mm)
AT-QTZ-A029	12	54	8	2
AT-QTZ-A030	6	17	37	2
AT-QTZ-A031	9	16	60	2
AT-QTZ-A032	7.5	20	30	2
AT-QTZ-A033	7	22	25	2
AT-QTZ-A034	10	25	25	2
AT-QTZ-A035	9	20	40	2
AT-QTZ-A036	12	19	58	2
AT-QTZ-A037	16	30	28	2
AT-QTZ-A038	17	47	13	2
AT-QTZ-A039	20	23	60	2
AT-QTZ-A040	17	30	30	2
AT-QTZ-A041	24.5	25	60	2
AT-QTZ-A042	23	35	30	2
AT-QTZ-A043	24	28	58	2
AT-QTZ-A044	28	35	35	2
AT-QTZ-A045	30	28	58	2
AT-QTZ-A046	35	30	60	2
AT-QTZ-A047	39	36	45	2
AT-QTZ-A048	37	40	35	2
AT-QTZ-A049	36	26	82	2
AT-QTZ-A050	43	40	40	2
AT-QTZ-A051	41	40	40	2.5
AT-QTZ-A052	54	40	50	2
AT-QTZ-A053	52	40	50	2.5
AT-QTZ-A054	63	40	60	2.5
AT-QTZ-A055	130	40	120	2.5
AT-QTZ-A056	150	60	60	2.5

Note

1. Purity of the quartz crucible can reach up to 99.99%;
2. Dimension may be revised without further notice, therefore the buyer shall confirm dimension with ATCERA before releasing purchase order;
3. Please inquire ATCERA if need other size or special-shaped crucibles.

Quartz Transparent Crucible

Hunan ATCERA Co. Ltd.

Conical crucible

Model	Volume (ml)	Top Diameter (mm)	Bottom Diameter (mm)	Height (mm)	Wall Thickness (mm)
AT-QTZ-B001	5	25	18	31	1.5
AT-QTZ-B002	5	25	18	40	1.5
AT-QTZ-B003	10	30	23	42	2
AT-QTZ-B004	10	30	23	53	2
AT-QTZ-B005	20	35	25	45	2
AT-QTZ-B006	20	35	25	59	2
AT-QTZ-B007	30	40	30	54	2
AT-QTZ-B008	30	40	30	68	2
AT-QTZ-B009	50	45	33	63	2
AT-QTZ-B010	50	45	33	75	2
AT-QTZ-B011	100	54	39	84	2
AT-QTZ-B012	100	54	39	100	2
AT-QTZ-B013	150	60	43	90	2
AT-QTZ-B014	150	60	43	105	2

Rectangular crucible

Model	Length(mm)	Width (mm)	Height(mm)	Wall Thickness (mm)
AT-QTZ-C001	50	10	10	2-3
AT-QTZ-C002	100	10	10	2-3
AT-QTZ-C003	50	15	10	2-3
AT-QTZ-C004	100	15	10	2-3
AT-QTZ-C005	50	20	15	2-3
AT-QTZ-C006	100	20	15	2-3
AT-QTZ-C007	50	30	20	2-3
AT-QTZ-C008	100	30	20	2-3
AT-QTZ-C009	50	40	25	2-3
AT-QTZ-C010	100	40	25	2-3
AT-QTZ-C011	50	50	30	2-3
AT-QTZ-C012	100	50	30	2-3
AT-QTZ-C013	50	50	50	2-3
AT-QTZ-C014	100	100	30	2-3
AT-QTZ-C015	100	100	50	2-3
AT-QTZ-C016	100	100	100	2-3
AT-QTZ-C017	200	100	50	2-3

- Note**
1. Purity of the quartz crucible can reach up to 99.99%;
 2. Dimension may be revised without further notice, therefore the buyer shall confirm dimension with ATCERA before releasing purchase order;
 3. Please inquire ATCERA if need other size or special-shaped crucibles.

www.atcera.com

Features

- ◆ High purity, good corrosion resistance, no contamination concern
- ◆ High temperature resistance, excellent thermal shock performance
- ◆ Excellent optical properties



Specification

Item	Unit	Value
Density (g/cm ³)	g/cm ³	2.2
Tensile strength (MPa)	MPa	48
Elastic Modulus (GPa)	GPa	72
Poisson's ratio	/	0.14-0.17
Compressive strength (MPa)	MPa	1100
Bending strength (MPa)	MPa	67
Moh's hardness	/	5.5-6.5
Maximum working temperature (long-term)	°C	1100
Maximum working temperature (short-term)	°C	1350
Thermal conductivity	W/m*K	1.4
Refractive index	/	1.4585
Thermal expansion coefficient	/°C	5.5×10^{-7}
Specific resistance	Ohm*cm	7×10^7

Note: The parameters above may have slight deviations due to the raw material composition, OR difference in forming and sintering processes.

Applications

- ◆ Process of wet etching and wafer cleaning for semiconductor and photovoltaic cell production.

Dimension

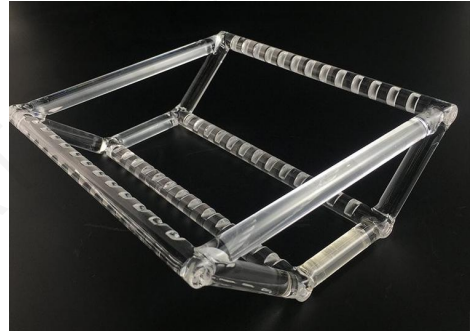
To be customized.

Quartz Wafer Boat

Hunan ATCERA Co. Ltd.

Features

- ◆ High temperature resistance, excellent thermal shock performance
- ◆ Good corrosion resistance and stable chemical performance
- ◆ Excellent optical properties, high transmittance



Specification

Item	Unit	value
Density	g/cm ³	2.2
Tensile strength	MPa	48
Elastic Modulus	GPa	70-75
Poisson's ratio	/	0.14-0.17
Compressive strength	MPa	1100
Bending strength	MPa	67
Moh's hardness	/	5.5-6.5
Maximum working temperature (long-term)	°C	1100
Maximum working temperature (short-term)	°C	1350
Thermal conductivity	W/m*K	1.4
Refractive index	/	1.45-1.46
Thermal expansion coefficient	/°C	$5.5-6.7 \times 10^{-7}$
Specific resistance	Ohm*cm	7×10^7

Note: The parameters above may have slight deviations due to the raw material composition, OR difference in forming and sintering processes.

Applications

- ◆ Loading semiconductor wafer or solar wafer for diffusion and oxidation treatment in diffusion furnaces.

Dimension

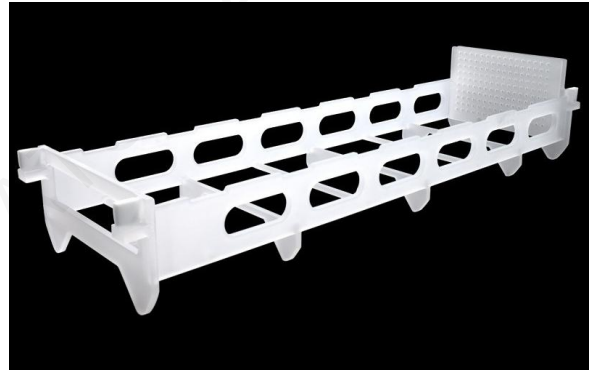
To be customized.

Quartz Wafer Boat Carrier

Hunan ATCERA Co. Ltd.

Features

- ◆ High temperature resistance, excellent thermal shock performance
- ◆ Good corrosion resistance and stable chemical performance
- ◆ Excellent optical properties, high transmittance



Specification

Item	Unit	Value
Density	g/cm ³	2.2
Tensile strength	MPa	48
Elastic Modulus	GPa	70-75
Poisson's ratio	/	0.14-0.17
Compressive strength	MPa	1100
Bending strength	MPa	67
Moh's hardness	/	5.5-6.5
Maximum working temperature (long-term)	°C	1100
Maximum working temperature (short-term)	°C	1350
Thermal conductivity	W/m*K	1.4
Refractive index	/	1.45-1.46
Thermal expansion coefficient	/°C	5.5-6.7*10 ⁻⁷
Specific resistance	Ohm*cm	7*10 ⁷

Note: The parameters above may have slight deviations due to the raw material composition, OR difference in forming and sintering processes.

Applications

- ◆ Loading wafer boat for diffusion and oxidation treatment in diffusion furnaces.

Dimension

To be customized.

Quartz Laser Cavity Filter

Hunan ATCERA Co. Ltd.

Features

- ◆ Good wear resistance and corrosion
- ◆ Easy to clean, long service life
- ◆ High working temperature, good thermal shock resistance



Specification

Item	Unit	Value
Density	g/cm ³	2.2
Tensile strength	MPa	48
Elastic Modulus	GPa	70-75
Poisson's ratio	/	0.14-0.17
Compressive strength	MPa	1100
Bending strength	MPa	67
Moh's hardness	/	5.5-6.5
Maximum working temperature (long-term)	°C	1100
Maximum working temperature (short-term)	°C	1350
Thermal conductivity	W/m*K	1.4
Refractive index	/	1.45-1.46
Thermal expansion coefficient	/°C	5.5-6.7*10 ⁻⁷
Specific resistance	Ohm*cm	7*10 ⁷

Note: The parameters above may have slight deviations due to the raw material composition, OR difference in forming and sintering processes.

Applications

- ◆ Used on laser, as light source of laser detection and analysis of instruments, or laser medical equipment.

Dimension

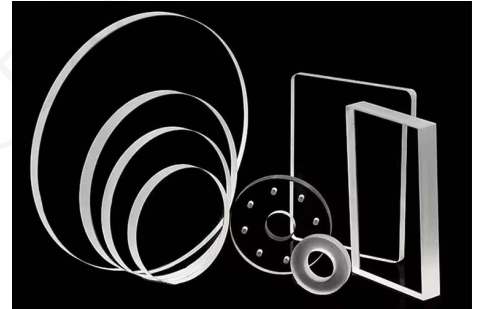
To be customized.

Quartz Sight Glass

Hunan ATCERA Co. Ltd.

Features

- ◆ High temperature resistance, excellent thermal shock performance
- ◆ Good corrosion resistance
- ◆ Excellent optical properties, high transmittance



Applications

- ◆ Installed on chemical equipment, cleaning machines, furnace and chillers to observe liquid level, chemical reaction or flame.

Dimension (the unit is mm unless otherwise noted)

Round type

Model	Diameter	Thickness
AT-SY-SJ001	10	2
AT-SY-SJ002	35	5
AT-SY-SJ003	50	5
AT-SY-SJ004	50	8
AT-SY-SJ005	55	5
AT-SY-SJ006	55	10
AT-SY-SJ007	60	5
AT-SY-SJ008	60	10
AT-SY-SJ009	65	5
AT-SY-SJ010	70	5
AT-SY-SJ011	80	3
AT-SY-SJ012	80	8
AT-SY-SJ013	95	8
AT-SY-SJ014	100	8
AT-SY-SJ015	120	10
AT-SY-SJ016	150	8
AT-SY-SJ017	150	20
AT-SY-SJ018	175	20
AT-SY-SJ019	200	20
AT-SY-SJ020	200	30
AT-SY-SJ021	250	20
AT-SY-SJ022	250	30

Rectangular type

Model	Length	Width	Thickness
AT-SY-SJ024	20	10	2
AT-SY-SJ025	50	30	5
AT-SY-SJ026	80	50	5
AT-SY-SJ027	80	50	8
AT-SY-SJ028	80	50	10
AT-SY-SJ029	100	80	5
AT-SY-SJ030	150	100	5
AT-SY-SJ031	200	120	10

Note

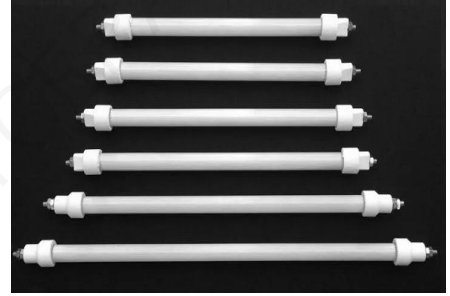
1. Purity of the quartz sight glass can reach up to 99.99%;
2. Dimension may be revised without further notice, therefore the buyer shall confirm dimension with ATCERA before releasing purchase order;
3. Please inquire ATCERA if need other size or special-shaped sight glass.

Quartz Infrared Heating Tube

Hunan ATCERA Co. Ltd.

Features

- ◆ High temperature and good thermal shock resistance
- ◆ Good corrosion resistance, contamination free
- ◆ Fast heating speed, high efficiency



Applications

- ◆ Industrial drying, dehumidification, dehydration and heating purposes

Dimension

Model	Tube diameter (mm)	Tube length (mm)	Voltage (V)	Power (W)
AT-SY-JRG001	8	120	220	300
AT-SY-JRG002	10	120	220	300
AT-SY-JRG003	11	220	220	700
AT-SY-JRG004	12	120	220	300
AT-SY-JRG005	12	160	220	300
AT-SY-JRG006	12	180	220	300
AT-SY-JRG007	12	205	220	300
AT-SY-JRG008	12	220	220	300
AT-SY-JRG009	12	230	220	300
AT-SY-JRG010	12	250	220	300
AT-SY-JRG011	12	260	220	300
AT-SY-JRG012	12	280	220	300
AT-SY-JRG013	12	300	220	300
AT-SY-JRG014	12	330	220	300
AT-SY-JRG015	14	330	220	300
AT-SY-JRG016	18	400	110/220/380	100-5000
AT-SY-JRG017	18	500	110/220/380	100-5000
AT-SY-JRG018	18	600	110/220/380	100-5000
AT-SY-JRG019	18	700	110/220/380	100-5000
AT-SY-JRG020	18	800	110/220/380	100-5000
AT-SY-JRG021	18	900	110/220/380	100-5000
AT-SY-JRG022	18	1000	110/220/380	100-5000
AT-SY-JRG023	18	1500	110/220/380	100-5000
AT-SY-JRG024	18	1800	110/220/380	100-5000
AT-SY-JRG025	22	180-1800	110/220/380	100-5000
AT-SY-JRG026	25	180-1800	110/220/380	100-5000
AT-SY-JRG027	28	180-1800	110/220/380	100-5000
AT-SY-JRG028	32	180-1800	110/220/380	100-5000

Note: Please inquire ATCERA if need other size or special-shaped heating tubes.

www.atcera.com

Other Quartz Products

Hunan ATCERA Co. Ltd.



Source Bottle



Waste Liquid Bottle



Flask



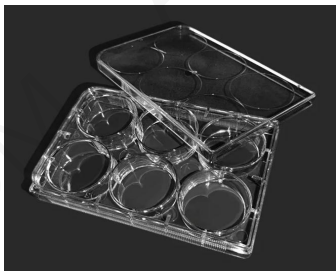
Beaker



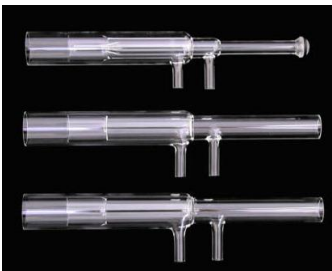
Combustion Boat



Evaporating Dish



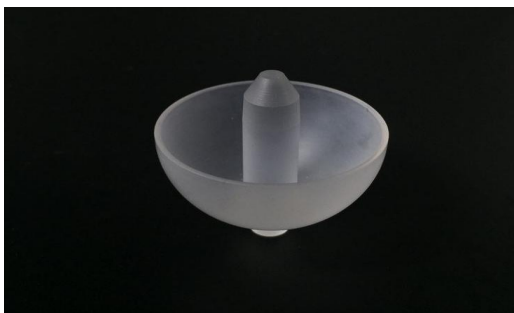
Enzyme Label Plate



Torch



Flange



Hemispherical Shell Resonator



Semiconductor Etching Ring

Note: Please inquire ATCERA or visit www.atcera.com if need details of the products above, OR if need other quartz products, please contact ATCERA to inquire customized service.



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