



TOQUARTZ

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Tech Specifications

Quartz Plate & Disc

Integrated Engineering & Agile Production
for Demanded Specifications

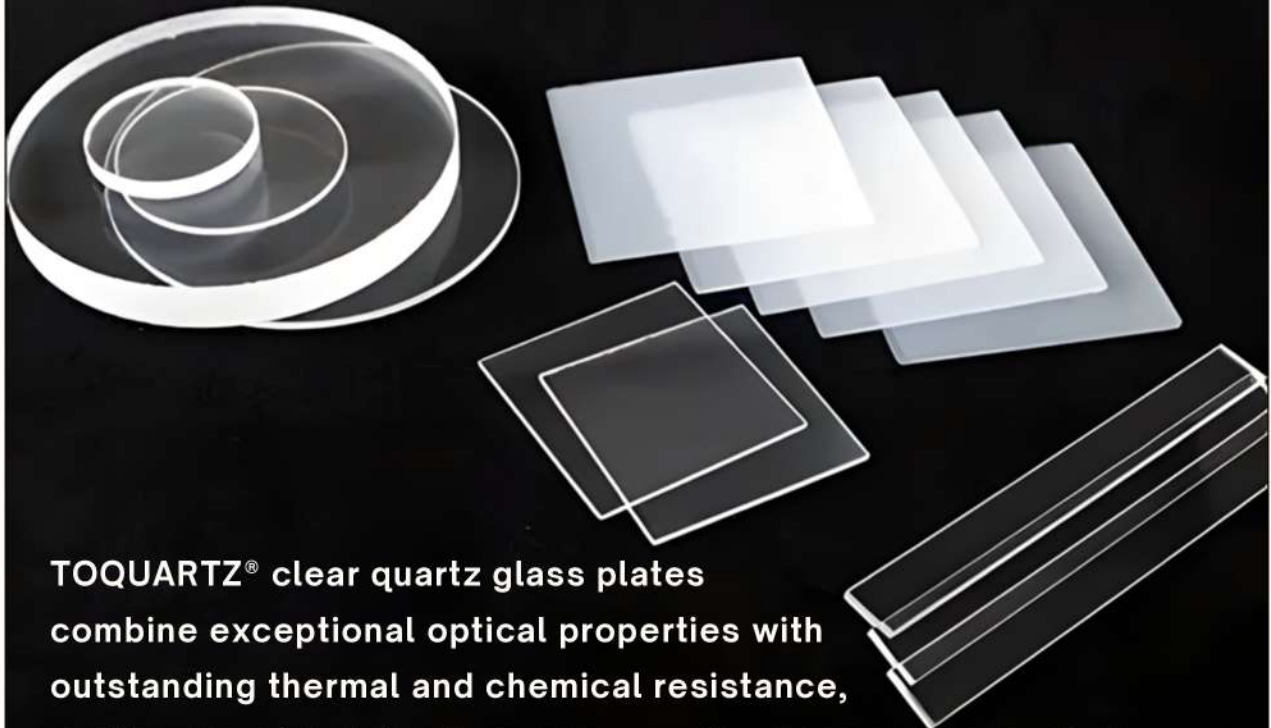


TOQUARTZ®

CLEAR QUARTZ GLASS PLATE

Premium High-Purity Optical Grade Quartz Plates

Product Overview



TOQUARTZ® clear quartz glass plates combine exceptional optical properties with outstanding thermal and chemical resistance, making them ideal for demanding applications across multiple industries. Our factory-direct manufacturing ensures consistent quality and competitive pricing.

CLEAR QUARTZ GLASS PLATE

Key Features

- **High Temperature Resistance:** Continuous use at 1100°C, short-term up to 1450°C
- **Excellent Optical Properties:** >93% visible light transmission, >80% UV transmission
- **Superior Chemical Resistance:** Resistant to most acids and corrosive environments
- **Custom Capabilities:** Various sizes, shapes, and edge treatments available

CLEAR QUARTZ GLASS PLATE

Applications



- Optical windows and filters
- UV sterilization systems
- Laboratory equipment
- High-temperature viewing ports
- Analytical instruments
- Laser system components
- Substrate materials



MATERIAL OPTIONS



JGS-1

Far UV grade (185nm+), high OH content (2000 PPM)



JGS-2

UV grade (220-2500 μ m), moderate OH content (100-200 PPM)



JGS-3

IR grade (260-3500 μ m), minimal OH content

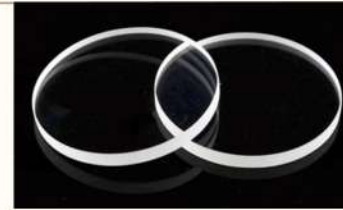
CUSTOMIZATION OPTIONS

- **Dimensions:** Specify exact length, width, and thickness requirements
- **Shape:** Round, square, rectangular, or custom shapes per drawing
- **Edge Treatment:** R-corner, C-edge, protective edge, or straight edge
- **Surface Finish:** Various polishing options available



TECHNICAL SPECIFICATIONS

Property	Specification	Notes
Material	High Purity Fused Silica (SiO ₂)	≥99.99% purity
Standard Sizes	50×50mm to 300×300mm	Custom sizes available
Thickness Range	0.5mm to 20mm	±0.1mm tolerance
Maximum Use Temperature	1100°C (continuous), 1450°C (short-term)	Maintains dimensional stability
Thermal Expansion Coefficient	$5.5 \times 10^{-7} / ^\circ\text{C}$	Excellent thermal shock resistance
Visible Light Transmission	>93%	For 1mm thickness
UV Transmission	>80% (200-300nm)	Depends on grade selected
Surface Finish Options	Ground, Fire Polished, Optical Polish	Application dependent
Edge Treatment	Straight, C-edge, R-corner, Chamfered	Custom edge work available



SIZE CHART

Quartz Glass Round Disc

Model	Diameter (mm)	Thickness (mm)	SiO ₂ 's Purity (%)
AT-SY-P1001	2	0.5	99.99
AT-SY-P1002	5	0.5	99.99
AT-SY-P1003	10	1	99.99
AT-SY-P1004	10	2	99.99
AT-SY-P1005	12	1	99.99
AT-SY-P1006	13	1	99.99
AT-SY-P1007	15	1	99.99
AT-SY-P1008	15	1.5	99.99
AT-SY-P1009	18	2	99.99



SIZE CHART

Quartz Glass Round Disc

Model	Diameter (mm)	Thickness (mm)	SiO ₂ 's Purity (%)
AT-SY-P1010	19.4	2	99.99
AT-SY-P1011	20	1	99.99
AT-SY-P1012	20	1.5	99.99
AT-SY-P1013	20	2	99.99
AT-SY-P1014	24	2	99.99
AT-SY-P1015	25	1	99.99
AT-SY-P1016	30	1	99.99
AT-SY-P1017	30	2	99.99
AT-SY-P1018	30	5	99.99



SIZE CHART

Quartz Glass Round Disc

Model	Diameter (mm)	Thickness (mm)	SiO ₂ 's Purity (%)
AT-SY-P1019	35	2	99.99
AT-SY-P1020	36	2.2	99.99
AT-SY-P1021	37	7	99.99
AT-SY-P1022	40	1	99.99
AT-SY-P1023	40	2	99.99
AT-SY-P1024	40	5	99.99
AT-SY-P1025	41.5	4	99.99
AT-SY-P1026	46	2	99.99
AT-SY-P1027	46.8	3	99.99



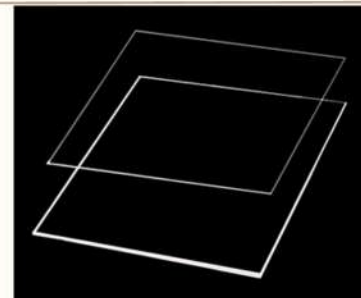
SIZE CHART

Quartz Glass Round Disc

Model	Diameter (mm)	Thickness (mm)	SiO ₂ 's Purity (%)
AT-SY-P1028	50	1	99.99
AT-SY-P1029	50	2	99.99
AT-SY-P1030	50	10	99.99
AT-SY-P1031	67.5	2	99.99
AT-SY-P1032	70	2	99.99
AT-SY-P1033	80	2	99.99
AT-SY-P1034	90	8	99.99
AT-SY-P1035	80	5	99.99
AT-SY-P1036	2-750mm	0.5-100mm	99.99



SIZE CHART

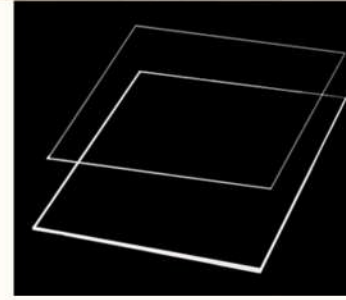


Quartz Glass Square Plate

Model	L*W (mm)	Thickness (mm)	SiO ₂ 's Purity (%)
AT-SY-P1037	2*2	0.5	99.99
AT-SY-P1038	5*5	0.5	99.99
AT-SY-P1039	5*5	1	99.99
AT-SY-P1040	8*8	2	99.99
AT-SY-P1041	10*10	1	99.99
AT-SY-P1042	20*20	1	99.99
AT-SY-P1043	25*25	1	99.99
AT-SY-P1044	30*30	1	99.99
AT-SY-P1045	40*40	1	99.99



SIZE CHART

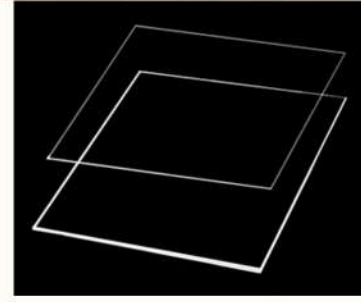


Quartz Glass Square Plate

Model	L*W (mm)	Thickness (mm)	SiO2's Purity (%)
AT-SY-P1046	50*50	0.5	99.99
AT-SY-P1047	50*50	1	99.99
AT-SY-P1048	50*50	2	99.99
AT-SY-P1049	50*50	4	99.99
AT-SY-P1050	50*50	5	99.99
AT-SY-P1051	60*60	1	99.99
AT-SY-P1052	60*60	1	99.99
AT-SY-P1053	60*60	3	99.99
AT-SY-P1054	60*60	4	99.99



SIZE CHART

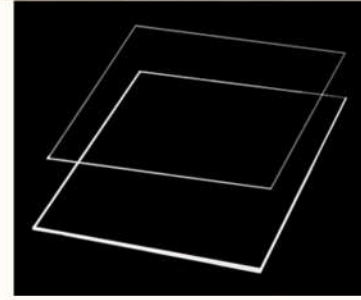


Quartz Glass Square Plate

Model	L*W (mm)	Thickness (mm)	SiO ₂ 's Purity (%)
AT-SY-P1055	60*60	5	99.99
AT-SY-P1056	75*25	1	99.99
AT-SY-P1057	75*25	2	99.99
AT-SY-P1058	100*100	1	99.99
AT-SY-P1059	100*100	2	99.99
AT-SY-P1060	100*100	3	99.99
AT-SY-P1061	100*100	4	99.99



SIZE CHART



Quartz Glass Square Plate

Model	L*W (mm)	Thickness (mm)	SiO ₂ 's Purity (%)
AT-SY-P1062	100*100	5	99.99
AT-SY-P1063	100*100	6	99.99
AT-SY-P1064	100*100	10	99.99
AT-SY-P1065	100*100	8	99.99
AT-SY-P1066	200*200	3	99.99
AT-SY-P1067	300*300	5	99.99
AT-SY-P1068	700*700mm	0.5-100mm	99.99



SIZE CHART



Quartz Plate Rectangular

Model	L (mm)	W (mm)	Thickness (mm)	SiO ₂ 's Purity (%)
AT-SY-P1069	5	2	0.5	99.99
AT-SY-P1070	8	4	0.5	99.99
AT-SY-P1071	10	4	1	99.99
AT-SY-P1072	12	5	1	99.99
AT-SY-P1073	20	4	1	99.99
AT-SY-P1074	30	8	2	99.99
AT-SY-P1075	50	20	1	99.99



SIZE CHART



Quartz Plate Rectangular

Model	L (mm)	W (mm)	Thickness (mm)	SiO ₂ 's Purity (%)
AT-SY-P1076	60	40	5	99.99
AT-SY-P1077	80	50	2	99.99
AT-SY-P1078	100	60	5	99.99
AT-SY-P1079	100	40	0.5	99.99
AT-SY-P1080	120	70	0.8	99.99
AT-SY-P1081	120	70	1	99.99
AT-SY-P1082	120	100	2	99.99
AT-SY-P1083	150	60	1	99.99



SIZE CHART



Quartz Plate Rectangular

Model	L (mm)	W (mm)	Thickness (mm)	SiO ₂ 's Purity (%)
AT-SY-P1084	200	120	5	99.99
AT-SY-P1085	200	100	5	99.99
AT-SY-P1086	300	100	2	99.99
AT-SY-P1087	5-700mm	2-550mm	0.5-80mm	99.99



QUALITY ASSURANCE

All TOQUARTZ® products undergo rigorous quality control testing to ensure consistent performance and dimensional accuracy. Certificates of conformity are provided with all orders.

Contact Information

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