



# TOQUARTZ

## Tech Specifications

# Quartz Plate & Disc

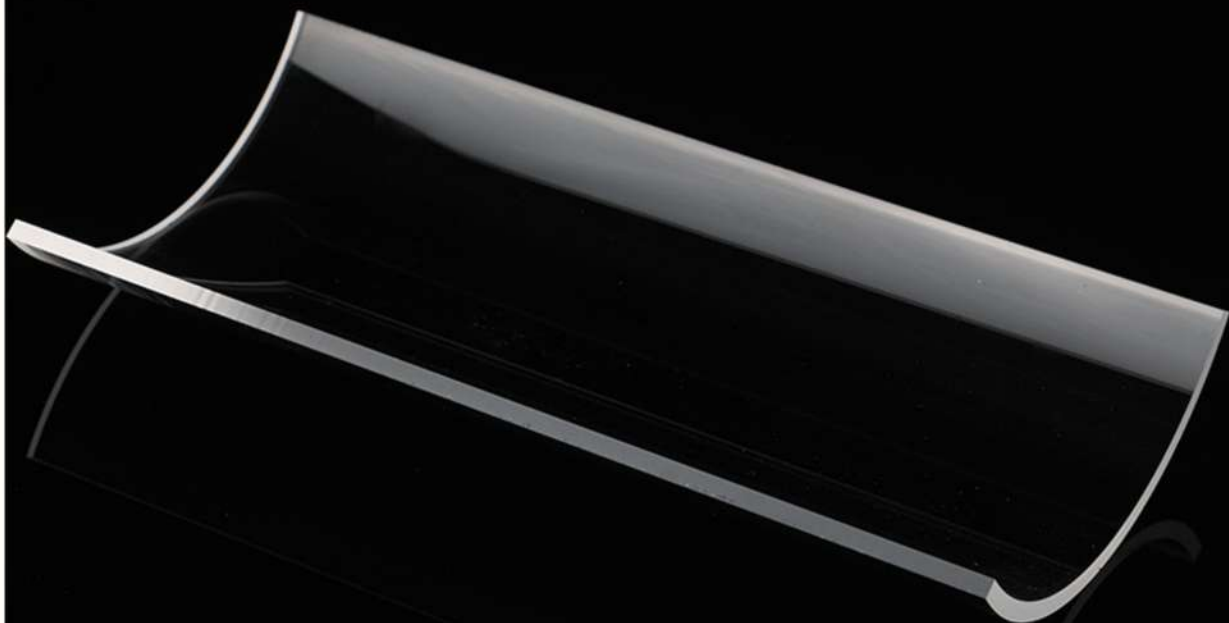
Integrated Engineering & Agile Production  
**for Demanded Specifications**



# TOQUARTZ®

## FUSED QUARTZ CURVED PLATES

### Product Overview



**TOQUARTZ® high-purity fused quartz curved plates feature exceptional thermal stability up to 1600°C with 99.99% SiO<sub>2</sub> purity. These precision-manufactured curved quartz plates offer superior chemical resistance, excellent optical transmission, and high mechanical strength for demanding industrial applications.**

# FUSED QUARTZ CURVED PLATES

## Key Features

- **Superior Thermal Stability:** Maintains structural integrity at temperatures up to 1600°C, with a low thermal expansion coefficient ( $\leq 5.5 \times 10^{-7}/K$ )
- **Excellent Optical Transmission:** Outstanding transparency across UV to IR spectrum (visible light >93%, UV >80%)
- **Superior Electrical Insulation:** Electrical resistance approximately 10,000 times greater than standard glass
- **Exceptional Heat Resistance:** Softening point ~1730°C, continuous use at 1100°C, short-term use up to 1450°C
- **High Chemical Resistance:** Resistant to most chemicals except hydrofluoric acid, 30x more stable than ceramics
- **High Material Purity:** SiO<sub>2</sub> content exceeding 99.99%



# FUSED QUARTZ CURVED PLATES

## Applications

- Infrared heating system reflectors
- Laboratory equipment viewing windows
- Industrial furnace observation ports
- UV sterilization equipment
- Specialized optical applications



# SIZE CHART

## SEMI-CIRCULAR FUSED QUARTZ CURVED PLATES

Model	Outer Dia.*Thickness*Width(mm)	SiO <sub>2</sub> Purity (%)
AT-SY-P3001	10mm *1.5mm *100mm	99.99
AT-SY-P3002	10mm *1.5mm *200mm	99.99
AT-SY-P3003	15mm *1.5mm *100mm	99.99
AT-SY-P3004	15mm *1.5mm *200mm	99.99
AT-SY-P3005	20mm *2mm *100mm	99.99
AT-SY-P3006	20mm *2mm *200mm	99.99
AT-SY-P3007	25mm *2mm *100mm	99.99
AT-SY-P3008	25mm *2mm *200mm	99.99
AT-SY-P3009	30mm *2mm *100mm	99.99



# SIZE CHART

## SEMI-CIRCULAR FUSED QUARTZ CURVED PLATES

Model	Outer Dia.*Thickness*Width(mm)	SiO <sub>2</sub> Purity (%)
AT-SY-P3010	30mm *2mm *200mm	99.99
AT-SY-P3011	35mm *2.5mm *100mm	99.99
AT-SY-P3012	35mm *2.5mm *200mm	99.99
AT-SY-P3013	40mm *2.5mm *100mm	99.99
AT-SY-P3014	40mm *2.5mm *200mm	99.99
AT-SY-P3015	50mm *3mm *100mm	99.99
AT-SY-P3016	50mm *3mm *200mm	99.99
AT-SY-P3017	50mm *3mm *300mm	99.99
AT-SY-P3018	60mm *3mm *100mm	99.99



# SIZE CHART

## SEMI-CIRCULAR FUSED QUARTZ CURVED PLATES

Model	Outer Dia.*Thickness*Width(mm)	SiO <sub>2</sub> Purity (%)
AT-SY-P3019	60mm *3mm *200mm	99.99
AT-SY-P3020	60mm *3mm *300mm	99.99
AT-SY-P3021	70mm *3mm *100mm	99.99
AT-SY-P3022	70mm *3mm *200mm	99.99
AT-SY-P3023	70mm *3mm *300mm	99.99
AT-SY-P3024	80mm *3mm *100mm	99.99
AT-SY-P3025	80mm *3mm *200mm	99.99
AT-SY-P3026	80mm *3mm *300mm	99.99
AT-SY-P3027	80mm*3mm*170mm	99.99





# SIZE CHART

## SEMI-CIRCULAR FUSED QUARTZ CURVED PLATES

Model	Outer Dia.*Thickness*Width(mm)	SiO <sub>2</sub> Purity (%)
AT-SY-P3028	80mm*3mm*380mm	99.99
AT-SY-P3029	80mm*3mm*420mm	99.99
AT-SY-P3030	90mm *3mm *100mm	99.99
AT-SY-P3031	90mm *3mm *200mm	99.99
AT-SY-P3032	90mm *3mm *300mm	99.99
AT-SY-P3033	100mm *3mm *100mm	99.99
AT-SY-P3034	100mm *3mm *200mm	99.99
AT-SY-P3035	100mm *3mm *300mm	99.99
AT-SY-P4001	Outer Dia.*Thickness*Width(mm)	99.99





## TECHNICAL SPECIFICATIONS



- Material: High-purity fused quartz
- SiO<sub>2</sub> Content: ≥99.99%
- Softening Point: ~1730°C
- Maximum Continuous Operating Temperature: 1100°C
- Short-term Temperature Resistance: Up to 1450°C
- Thermal Expansion Coefficient: ≤5.5×10<sup>-7</sup>/K
- Visible Light Transmission: >93%
- UV Transmission: >80%
- Shape: Semi-circular (standard)

## ENGINEERING SUPPORT

**TOQUARTZ® offers comprehensive engineering support to meet your specific requirements:**

- Technical drawing assistance
- Material selection consultation
- Prototyping and sample development
- Performance testing and validation



# QUALITY ASSURANCE

**All TOQUARTZ® fused quartz curved plates undergo rigorous quality control to ensure consistent performance in demanding applications.:**

- Dimensional verification
- Optical transparency testing
- Surface quality inspection
- Material composition analysis

## Contact Information

Email: [info@toquartz.com](mailto:info@toquartz.com)

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**TOQUARTZ® - Precision Quartz Solutions for Industry and Research**

*For technical specifications, custom requirements, or pricing information, please contact our sales team.*