

TOQUARTZ Product Catalog

TOQUARTZ® Custom-Slot Quartz UV Cuvette

Integrated Engineering & Agile Production

for Demanded Specifications



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TOQUARTZ® CUSTOM-SLOT QUARTZ UV CUVETTE

TOQUARTZ® is a specialized manufacturer of high-purity quartz products based in China, serving global B2B clients in laboratory instrumentation, biomedical research, and environmental monitoring. With in-house engineering support and flexible production capabilities, we offer both standard and custom TOQUARTZ® Custom-Slot Quartz UV Cuvette with fast delivery and consistent quality.





TOQUARTZ® CUSTOM-SLOT QUARTZ UV CUVETTE

Q Key Features

- Superior Optical Properties: Exceptional transmittance (>80% at 200nm) across the 200-2500nm range
- High-Purity Material: Manufactured from 99.98% SiO₂ fused quartz
- Precision Engineering: Tight dimensional tolerances (±0.1mm)
- Chemical Resistance: Stable against most acids, bases, and organic solvents
- Thermal Stability: Maintains dimensional integrity up to 1100°C
- Custom Slot Design: Engineered to exact specifications for specialized analytical applications



TOQUARTZ® CUSTOM-SLOT QUARTZ UV CUVETTE





TECHNICAL SPECIFICATIONS

Physical Properties:

· Material: High-purity fused quartz

Density: 2.2 g/cm³

Thermal Expansion Coefficient: 5.5×10⁻⁻ /°C

Maximum Operating Temperature: 1100°C

Hardness: 5.5-6.5 Mohs

Chemical Properties:

Purity: ≥99.98% SiO₂

· Chemical Resistance: Excellent resistance to acids, bases, and organic solvents

Water Absorption: <0.01%

Solubility in Water: Negligible

Optical Properties:

· Refractive Index: 1.458 (at 546nm)

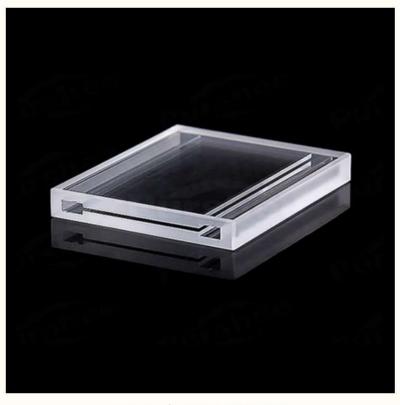
UV Cutoff: <180nm

Transmittance at 200nm: >80%

Transmittance at 250-2500nm: >90%

Surface Quality: Fine optical polish, free of bubbles and scratches

SIZE CHART



Custom-Slot Quartz UV Cuvette

Model	Description	Wavelength	Path Length	Volume	Transmittance	Outline Dimension
AT-BSM- 030	Custom- Slot Quartz UV Cuvette	200nm- 2500nm	2mm/0.5 mm	/	>80% (Paired Testing)	35x5x42mm



CUSTOMIZATION OPTIONS

Customization Services Our engineering team provides comprehensive customization options to meet your specific requirements:

- Custom Slot Dimensions: Tailor slot width, depth, and geometry
- Specialized Path Lengths: From 0.1mm to 100mm with tight tolerances
- Multiple Optical Windows: 2, 3, 4, or 6 optical windows
- Flow-Through Adaptations: Custom inlet/outlet ports
- Special Surface Treatments: Black-masked walls or specialized coatings
- Integration Features: Custom mounting features

QUALITY ASSURANCE

Each TOQUARTZ Quartz Cuvette undergoes rigorous quality control testing:

- Dimensional Verification: Precision measurement of all critical dimensions
- Optical Transmission Testing: Verification of spectral transmission properties
- Surface Quality Inspection: Microscopic examination of polished surfaces
- Paired Performance Testing: Validation of optical consistency

Contact Information

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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.