



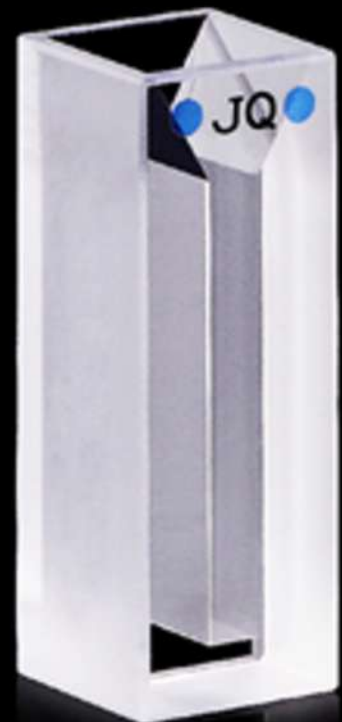
# TOQUARTZ

## Product Catalog

# TOQUARTZ®

## Quartz Micro Cuvette

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





# TOQUARTZ® QUARTZ MICRO 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® Quartz Micro Cuvette with fast delivery and consistent quality.



## Product Overview

TOQUARTZ® Quartz Micro Cuvettes are precision-engineered for high-accuracy spectroscopic analysis, featuring 99.98% SiO<sub>2</sub> purity and exceptional optical transmission across 200nm-2500nm wavelength range. Designed for applications requiring minimal sample volume (350µl-1750µl), these cuvettes deliver superior chemical resistance, thermal stability, and dimensional precision ( $\pm 0.1\text{mm}$ ).



# TOQUARTZ® QUARTZ MICRO CUVETTE



## Key Features

- High-purity quartz material (99.98% SiO<sub>2</sub>) ensuring minimal impurities and background interference
- Superior optical transmission across 200nm-2500nm wavelength range with no absorption peaks
- Excellent dimensional precision ( $\pm 0.1\text{mm}$ ) for reliable fit in spectrophotometer instruments
- Outstanding chemical resistance against acids, bases, and organic solvents
- Thermal stability up to 1100°C allowing usage in high-temperature applications





# TOQUARTZ® QUARTZ MICRO CUVETTE



## Applications

- **UV-Vis Spectroscopy:** For accurate and consistent readings with minimal sample volumes
- **Fluorescence Detection:** Specialized black wall options for enhanced sensitivity
- **Life Science Research:** DNA, RNA, and protein analysis with exceptional UV transparency
- **Analytical Chemistry:** Precise measurements for quality control and research applications
- **Clinical Diagnostics:** Reliable sample analysis for medical testing and diagnostics



# TECHNICAL SPECIFICATIONS

## Physical Properties:

- Material: High-purity fused silica (99.995% SiO<sub>2</sub>)
- Standard dimensions: 12.5 x 12.5 x 45mm (outer)
- Path length options: 5mm, 10mm (standard); custom lengths available
- Wall thickness: 1.25mm ± 0.1mm
- Surface finish: Optical polish (standard), frosted options available

## Chemical Properties:

- Chemical resistance: Excellent against acids, bases, organic solvents
- Maximum operating temperature: 1100°C
- Thermal expansion coefficient:  $5.5 \times 10^{-7}/^{\circ}\text{C}$
- Thermal shock resistance: Excellent ( $\Delta T = 900^{\circ}\text{C}$ )

## Optical Properties:

- Transmission range: 200nm-2500nm
- UV cutoff: <190nm
- Transmission efficiency: >80% (paired testing)
- Refractive index: 1.458 at 546.1nm



# SIZE CHART



700µl Quartz Micro Cuvette

Model	Description	Wavelength	Path Length	Volume	Transmittance	Outline Dimension
AT-BSM-4007	700µl Quartz Micro Cuvette	200nm-2500nm	10mm	700µl	>80% (Paired Testing)	12.5x12.5x45mm



# SIZE CHART

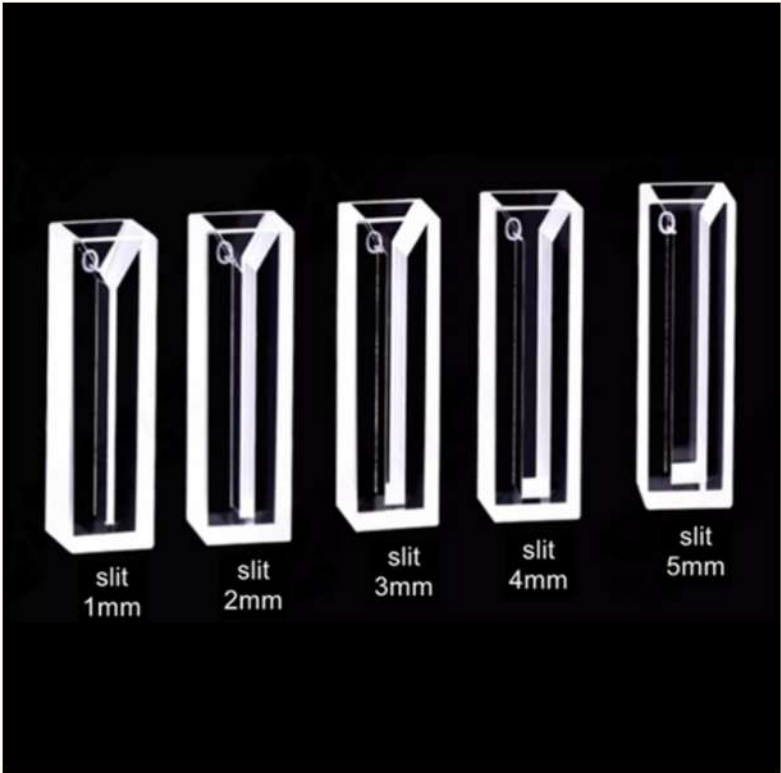


800µl Quartz Micro Cuvette

Model	Description	Wavelength	Path Length	Volume	Transmittance	Outline Dimension
AT-BSM-4011	800µl Quartz Micro Cuvette	200nm-2500nm	10mm	800µl	>80% (Paired Testing)	12.5x12.5x35mm



# SIZE CHART



350µl-1750µl Quartz Micro Cuvette

Model	Description	Wavelength	Path Length	Volume	Transmittance	Outline Dimension
AT-BSM-4037	350µl-1750µl Quartz Micro Cuvette	200nm-2500nm	10mm	350µl-1750µl	>80% (Paired Testing)	12.5x12.5x45mm





# SIZE CHART



500µl Quartz Micro Cuvette

Model	Description	Wavelength	Path Length	Volume	Transmittance	Outline Dimension
AT-BSM-4039	500µl Quartz Micro Cuvette	200nm-2500nm	5mm	500µl	>80% (Paired Testing)	12.5x7.5x45mm



## CUSTOMIZATION OPTIONS

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

- Path Length Variations: Custom path lengths
- Volume Adaptations: Modified internal dimensions for specific sample requirements
- Wall Treatments: Black, frosted, or partially masked walls
- Cap Designs: Screw caps, PTFE stoppers, or specialized sealing mechanisms
- Dimensional Modifications: Custom heights, widths, and optical configurations
- Special Markings: Volume indicators, orientation marks, or custom identifiers



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