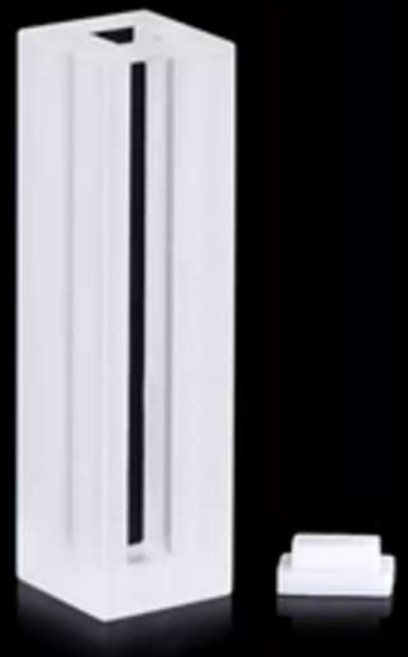




TOQUARTZ
Tech Specifications

TOQUARTZ®
Micro Quartz
UV Cuvette Cell
2 Polished Sides with Lid
Product Catalog

Integrated Engineering & Agile Production
for Demanded Specifications



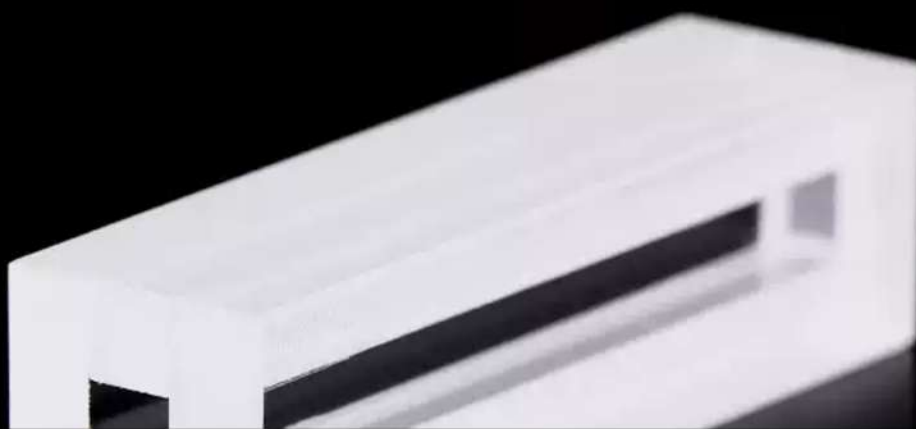
TOQUARTZ® MICRO QUARTZ UV CUVETTE CELL

2 POLISHED SIDES WITH LID

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® micro quartz UV cuvette with fast delivery and consistent quality.



Product Overview



TOQUARTZ® High precision micro quartz UV cuvette designed for spectrophotometric analysis with outstanding optical properties. Features 2 polished sides for light transmission and a secure lid to prevent sample evaporation and contamination. Manufactured from 99.995% pure fused quartz for superior UV-visible range performance.

TOQUARTZ® MICRO QUARTZ UV CUVETTE CELL

2 POLISHED SIDES WITH LID



Key Features

- Superior Optical Clarity: 99.98%+(max. up to 99.995%) pure fused quartz with exceptional transmission in UV-visible range
- Precision Optical Surfaces: Two perfectly polished sides with high flatness for consistent light path
- Chemical Resistance: Highly resistant to acids, bases, salts and organic solvents
- Thermal Stability: Withstands temperatures up to 600°C with minimal thermal expansion
- Secure Lid Design: Prevents sample evaporation and contamination during analysis
- Micro Volume: Requires only 400-560µl sample, conserving precious materials

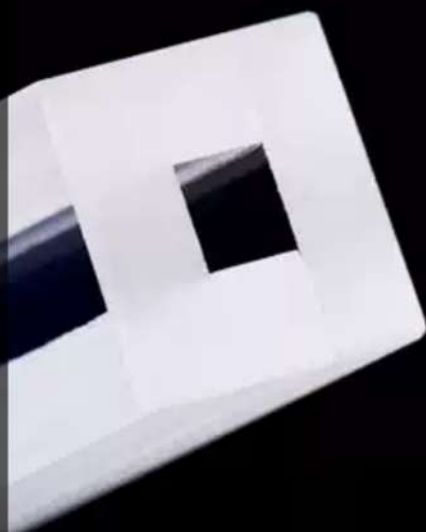
TOQUARTZ® MICRO QUARTZ UV CUVETTE CELL

2 POLISHED SIDES WITH LID



Applications

- Spectrophotometric analysis of biological samples (DNA/RNA, proteins)
- Fluorescence detection (with limitations due to 2-sided design)
- UV-Vis analytical chemistry
- Quality control in pharmaceutical and chemical industries
- Academic and industrial research requiring small sample volumes





TECHNICAL SPECIFICATIONS

I . Chemical Properties

Material	Fused Quartz (SiO ₂)	High purity synthetic quartz
Purity	99.995% SiO ₂	Ultra-high purity grade
Chemical Resistance	Excellent	Resistant to most acids, bases, and solvents
Hydrophobicity	Hydrophilic	Good wettability with aqueous solutions
Thermal Expansion Coefficient	5.5×10 ⁻⁷ /K	Very low thermal expansion
Maximum Operating Temperature	600°C	Suitable for high-temperature samples



TECHNICAL SPECIFICATIONS

II . Optical Properties

Wavelength Range	200-2500nm	Full UV-Vis-NIR spectrum
UV Transmission at 200nm	≥85%	Superior deep UV performance
UV Transmission at 220nm	≥88%	Ideal for protein analysis
UV Transmission at 260nm	≥90%	Optimized for DNA/RNA quantification
Visible Light Transmission	≥92%	400-700nm range
Refractive Index (589.3nm)	1.458	Standard for fused quartz
Surface Flatness	λ/10	Optical grade polishing



SIZE CHART



560µl Micro Quartz UV Cuvette Cell 2 Polished Sides with Lid

Model	Description	Wavele ngth	Path Length	Volume	Thermostabil ity	Outline Dimension
AT-BSM-009	Micro Quartz UV Cuvette Cell 2 Polished Sides with Lid	200nm-2500nm	4mm	560µl	600°C	12.5x12.5x45 mm



CUSTOMIZATION OPTIONS

TOQUARTZ® offers specialized customization services to meet unique application requirements:

- Custom path lengths
- Modified outer dimensions
- Special volume requirements
- 4-sided polished options for fluorescence
- Black-walled versions
- Flow-through configurations
- Alternative lid materials



CARE AND MAINTENANCE

- Handle by non-optical surfaces to prevent fingerprints
- Clean with appropriate solvents immediately after use
- For persistent residues, use mild detergent solution
- Store in original packaging in dust-free environment
- Compatible with autoclave sterilization (121°C)



QUALITY ASSURANCE

Each TOQUARTZ 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.