



TOQUARTZ
Tech Specifications

TOQUARTZ®
Fused Quartz
Micro UV Cuvette with Lid
Product Catalog

Integrated Engineering & Agile Production
for Demanded Specifications



TOQUARTZ® FUSED QUARTZ MICRO UV CUVETTE 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® Fused Quartz Micro UV Cuvette with fast delivery and consistent quality.



Product Overview



TOQUARTZ® Fused Quartz Micro UV Cuvettes with Lid are designed for precision spectroscopic analysis in laboratory environments. Manufactured from 99.995% pure fused quartz, these cuvettes provide exceptional optical transmission across the 200-2500nm wavelength range, making them ideal for UV-Vis spectroscopy applications including DNA/RNA quantification, protein analysis, and trace element detection.

TOQUARTZ® FUSED QUARTZ MICRO UV CUVETTE WITH LID



TOQUARTZ

Key Features

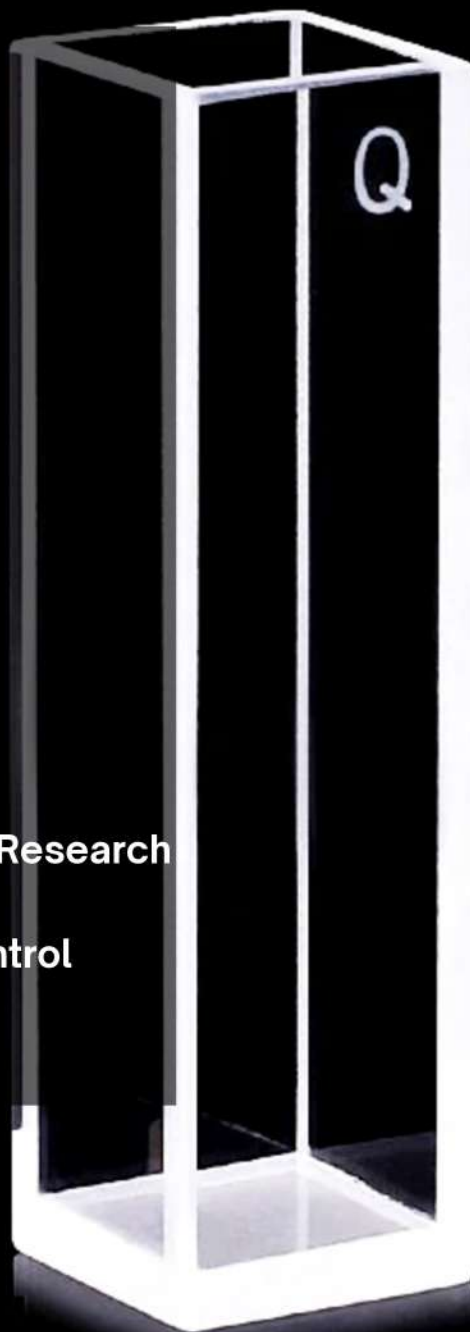
- **High Material Purity:** 99.995% SiO₂ ensuring minimal contaminants
- **Excellent Optical Transmission:** >80% paired testing transmittance
- **Precise Dimensional Control:** Manufactured to $\pm 0.1\text{mm}$ tolerance
- **Chemical Resistance:** Stable against acids, alkalis, and organic solvents
- **Thermal Stability:** Withstands temperatures up to 1100°C
- **Rapid Availability:** Standard models ship within 24 hours

TOQUARTZ® FUSED QUARTZ MICRO UV CUVETTE WITH LID



Applications

- UV-Vis Spectroscopy
- Fluorescence Analysis
- DNA/RNA Quantification
- Protein Analysis
- Trace Element Detection
- Chemical and Biochemical Research
- Pharmaceutical Quality Control
- Environmental Testing





TECHNICAL SPECIFICATIONS

Property	Value / Description
Material Purity	$\geq 99.995\%$ SiO ₂ (Fused Quartz)
UV-Vis Transmission Range	200 nm – 2500 nm
Transmittance at 260 nm	> 85% (single window), > 80% (paired cuvette)
Refractive Index (at 589 nm)	1.4585
Thermal Stability	Up to 1100°C continuous use
Thermal Shock Resistance	$\Delta T \geq 250^{\circ}\text{C}$ (no cracking under rapid temperature change)
Thermal Conductivity	1.4 W/m·K (at 20°C)
Coefficient of Thermal Expansion	$5.5 \times 10^{-7} / ^{\circ}\text{C}$ (20–300°C)

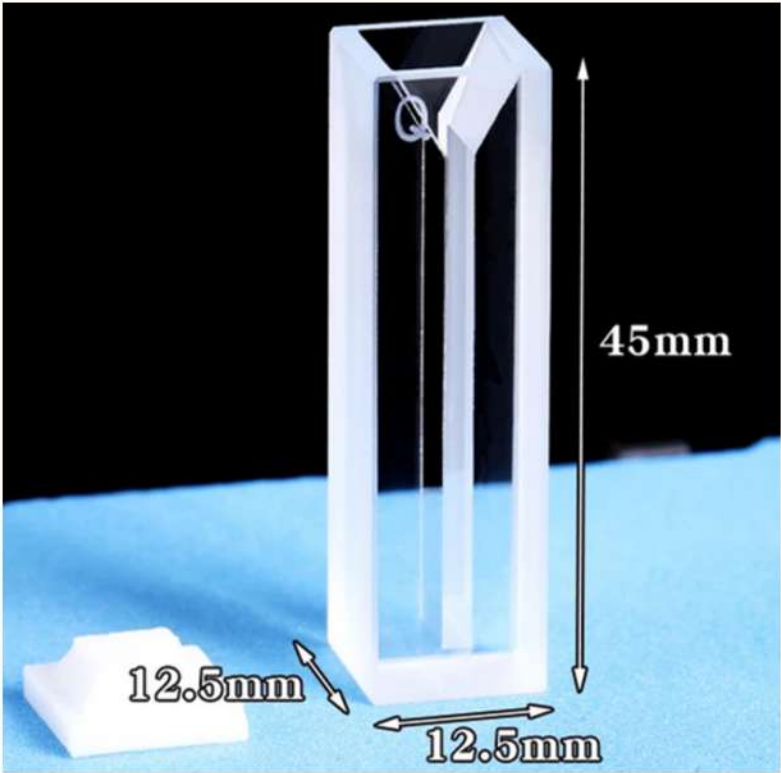


TECHNICAL SPECIFICATIONS

Property	Value / Description
Specific Heat Capacity	670 J/kg·K (at 20°C)
Density	2.2 g/cm ³
Dielectric Strength	250–400 kV/cm
Chemical Resistance	Excellent resistance to acids, bases, organic solvents (except HF)
pH Stability Range	pH 1 – 14 (tested in buffer solutions, 100 cycles)
Surface Roughness (Optical Face)	Ra < 0.01 µm (polished, non-porous)
Solvent Compatibility	Compatible with ethanol, methanol, acetone, DMSO, acetonitrile, NaOH, HCl, etc.
Fluorescence Background	Negligible autofluorescence under 260–320 nm excitation
Hydrolytic Resistance	Class 1 (ISO 719)
Acid Resistance Class	Class 1 (ISO 1776)
Alkali Resistance Class	Class 2 (ISO 695)



SIZE CHART



700µl Fused Quartz Micro UV Cuvette with Lid

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM-012	700µl Fused Quartz Micro UV Cuvette with Lid	200nm-2500nm	10mm	700µl	>80% (Paired Testing)	12.5x12.5x45 mm



SIZE CHART



350µl Fused Quartz Micro UV Cuvette with Lid

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM-014	350µl Fused Quartz Micro UV Cuvette with Lid	200nm-2500nm	10mm	350µl	>80% (Paired Testing)	12.5x12.5x45 mm



SIZE CHART



1050µl Fused Quartz Micro UV Cuvette with Lid

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM-016	1050µl Fused Quartz Micro UV Cuvette with Lid	200nm-2500nm	10mm	1050µl	>80% (Paired Testing)	12.5x12.5x45 mm



SIZE CHART



1400µl Fused Quartz Micro UV Cuvette with Lid

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM-018	1400µl Fused Quartz Micro UV Cuvette with Lid	200nm-2500nm	10mm	1400µl	>80% (Paired Testing)	12.5x12.5x45 mm



SIZE CHART



1750µl Fused Quartz Micro UV Cuvette with Lid

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM-075	1750µl Fused Quartz Micro UV Cuvette with Lid	200nm-2500nm	10mm	1750µl	>80% (Paired Testing)	12.5x12.5x45 mm



CUSTOMIZATION CAPABILITIES

TOQUARTZ® offers comprehensive customization services for Fused Quartz Micro UV Cuvette, including:

- Non-standard path lengths
- Micro-volume designs
- Black wall options for fluorescence applications
- Flow-through designs with tubing connections
- Specialized lids for volatile or hazardous samples



QUALITY ASSURANCE

All TOQUARTZ® Fused Quartz Micro UV Cuvette undergo rigorous quality control to ensure consistent performance in demanding applications.:

- Dimensional verification
- Optical transmission testing
- Surface quality inspection
- Material purity confirmation

Contact Information

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Website: www.toquartz.com

TOQUARTZ® - Precision Quartz Solutions for Industry and Research

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