



# TOQUARTZ

## Product Catalog

# TOQUARTZ® Fused Quartz UV Cuvette Cell with Screw Cap

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





# TOQUARTZ® FUSED QUARTZ UV CUVETTE CELL WITH SCREW CAP

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 UV Cuvette Cell with Screw Cap with fast delivery and consistent quality.



## Product Overview

TOQUARTZ® Fused Quartz UV Cuvette Cells with Screw Cap are precision-engineered optical cells designed for spectroscopic analysis in UV-Vis applications. Manufactured from high-purity fused quartz (99.98% SiO<sub>2</sub>), these cuvettes offer exceptional optical transparency in the 200-2500nm wavelength range, making them ideal for demanding analytical applications.



# TOQUARTZ® FUSED QUARTZ UV CUVETTE CELL WITH SCREW CAP



## Key Features

### Superior Optical Clarity

- 99.995% pure fused quartz material
- Exceptional transparency across 200-2500nm range
- Enables accurate UV-Vis spectroscopy measurements

### Precision Engineered Dimensions

- Manufactured with precise optical path length tolerances ( $\pm 0.1\text{mm}$ )
- Ensures consistent spectroscopic results
- Compatible with standard spectrophotometer holders





# TOQUARTZ® FUSED QUARTZ UV CUVETTE CELL WITH SCREW CAP

## Key Features

### Secure Screw Cap Design

- PTFE screw cap ensures airtight sealing
- Prevents evaporation of volatile samples
- Enables secure storage between measurements

### Chemical Resistance

- Excellent resistance to acids, bases, and organic solvents
- Ideal for analyzing corrosive samples
- Compatible with most common laboratory solvents



# TOQUARTZ® FUSED QUARTZ UV CUVETTE CELL WITH SCREW CAP



## Applications

### Pharmaceutical Analysis

- Drug quality control
- Formulation development
- Dissolution testing
- Active ingredient quantification

### Environmental Testing

- Water quality analysis
- Contaminant detection
- Soil extract analysis
- Pollution monitoring





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## Applications

### Research Lab Uses

- Protein and DNA quantification
- Enzyme kinetics studies
- Chemical reaction monitoring
- Fluorescence measurements

### Industrial Quality Control

- Raw material verification
- Product purity testing
- Process monitoring
- Color analysis





# TECHNICAL SPECIFICATIONS

## Material Properties

- **Material:** 99.995% Pure Fused Quartz
- **Density:** 2.2 g/cm<sup>3</sup>
- **Thermal Expansion Coefficient:**  $5.5 \times 10^{-7} / ^\circ\text{C}$
- **Maximum Operating Temperature:** 1000°C
- **Cap Material:** PTFE (Polytetrafluoroethylene)

## Optical Properties

- **Wavelength Range:** 200-2500nm
- **UV Cutoff:** <190nm
- **Refractive Index:** 1.46 (at 587.6nm)
- **Transmittance:** >80% (200-2500nm, Paired Testing)
- **Surface Finish:** Polished to Optical Quality



# SIZE CHART



3.5ml 10mm Path Length Quartz UV Cuvette with Screw Cap

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM-001	3.5ml 10mm Path Length Quartz UV Cuvette with Screw Cap	200nm-2500nm	10mm	3.5ml	>80% (Paired Testing)	12.5x12.5x55 mm





# SIZE CHART



14ml 40mm Path Length Quartz UV Cuvette with Screw Cap

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM-024	14ml 40mm Path Length Quartz UV Cuvette with Screw Cap	200nm-2500nm	40mm	14ml	>80% (Paired Testing)	12.5x42.5x45mm



# SIZE CHART



350µl 1mm Path Length Quartz UV Cuvette with Screw Cap

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM-026	350µl 1mm Path Length Quartz UV Cuvette with Screw Cap	200nm-2500nm	1mm	350µl	>80% (Paired Testing)	12.5x3.5x55 mm



# SIZE CHART



700µl 2mm Path Length Quartz UV Cuvette with Screw Cap

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM-027	700µl 2mm Path Length Quartz UV Cuvette with Screw Cap	200nm-2500nm	2mm	700µl	>80% (Paired Testing)	12.5*4.5*55 mm





## CUSTOMIZATION OPTIONS

TOQUARTZ® offers customization services to meet your specific analytical requirements:

- Custom path lengths and volumes
- Specialized cap designs
- Flow-through ports
- Non-standard dimensions
- Application-specific modifications

Our engineering team works directly with you to design and manufacture cuvettes tailored to your unique applications.



## USAGE AND CARE

### Cleaning Protocol

1. Rinse immediately after use with the solvent used in your analysis
2. Follow with rinse using spectroscopic-grade methanol or acetone
3. For persistent contaminants, soak in dilute laboratory detergent
4. Rinse thoroughly with deionized water
5. Air dry in dust-free environment or use filtered compressed air/nitrogen

### Handling Recommendations

- Always handle by non-optical surfaces
- Tighten screw caps only fingertight to avoid cracking
- Store in original container or dedicated dust-free storage box
- Periodically inspect optical surfaces for scratches or residues



# QUALITY ASSURANCE

Each TOQUARTZ Standard Quartz UV 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.*