

# TOQUARTZ Product Catalog

# TOQUARTZ® Fused Quartz UV Cuvette Cell with Screw Cap

Integrated Engineering & Agile Production

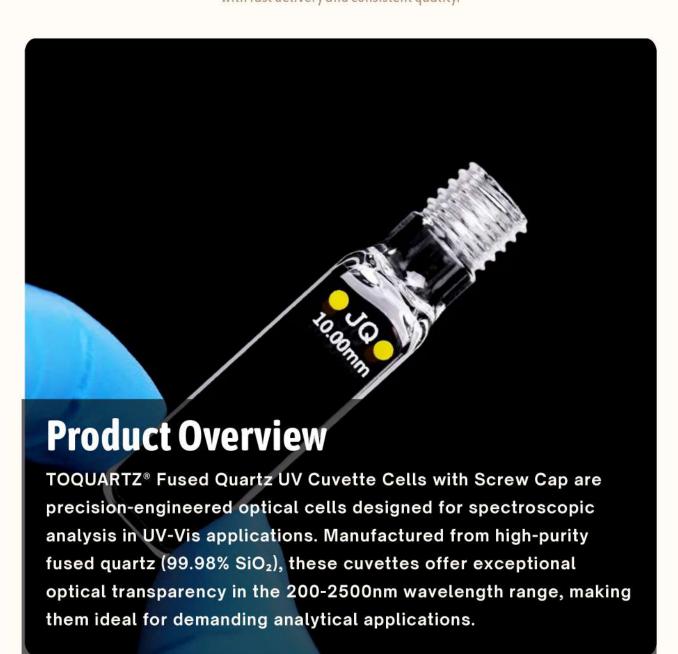
for Demanded Specifications



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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.





#### **Rey 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 (±0.1mm)
- Ensures consistent spectroscopic results
- Compatible with standard spectrophotometer holders



## **Rey 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











## TECHNICAL SPECIFICATIONS

#### Material Properties

- Material: 99.995% Pure Fused Quartz
- Density: 2.2 g/cm³
- Thermal Expansion Coefficient: 5.5×10⁻⁻ /°C
- Maximum Operating Temperature: 1000°C
- Cap Material: PTFE (Polytetrafluoroethylene)

#### **Optical Properties**

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



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



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)	12.5x42.5x4 5mm



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



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

- Rinse immediately after use with the solvent used in your analysis
- 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

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# **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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TOQUARTZ® - Precision Quartz Solutions for Industry and Research

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