

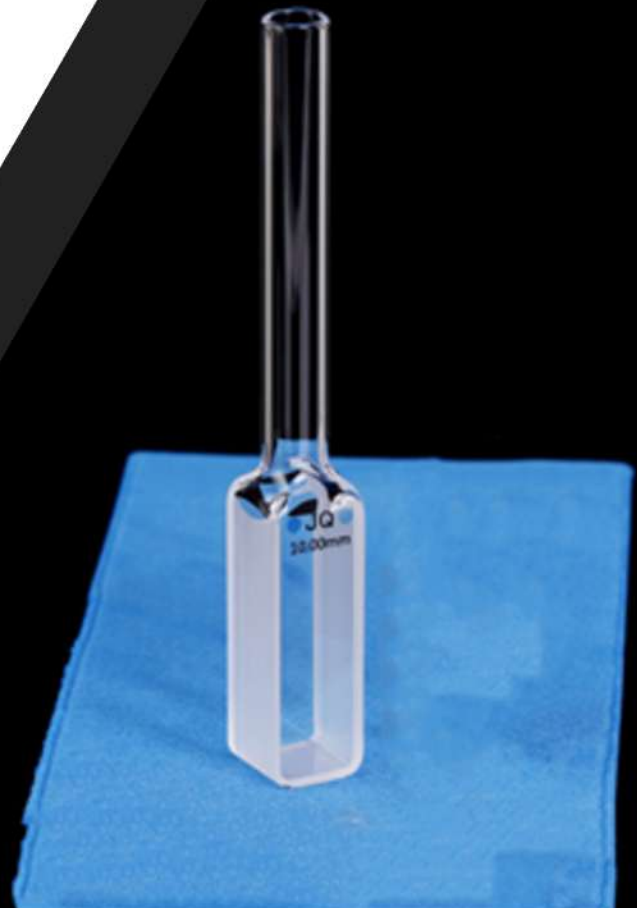


# TOQUARTZ

## Product Catalog

# TOQUARTZ® Quartz UV Cuvette with Tube

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





# TOQUARTZ® QUARTZ UV CUVETTE WITH TUBE

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 UV Cuvette with Tube with fast delivery and consistent quality.



## Product Overview

TOQUARTZ® High-purity quartz cuvette with integrated top tube designed for UV-visible spectrophotometry applications requiring sample injection, flow-through analysis, or sealed environments. Manufactured from  $\geq 99.98\%$  optical-grade fused quartz for superior performance in analytical applications..



# TOQUARTZ® QUARTZ UV CUVETTE WITH TUBE



## Key Features

- Superior UV Transmission: 200nm to 2500nm wavelength range with no absorption peaks
- High Chemical Resistance: Stable against acids, bases, salts, and organic solvents
- Thermal Stability: Withstands temperatures up to 1100°C
- Precision Optical Path:  $\pm 0.1\text{mm}$  tolerance for accurate measurements
- Integrated Tube Design: Enables flow analysis and sealed testing environments
- Custom Options Available: Path lengths, volumes, tube configurations





# TOQUARTZ® QUARTZ UV CUVETTE WITH TUBE



## Applications

- Flow Injection Analysis (FIA)
- Continuous monitoring systems
- Sealed environment spectroscopy
- Kinetic studies requiring sample addition
- Microvolume analysis of precious samples
- Automated analytical systems





# TECHNICAL SPECIFICATIONS

## Physical Properties

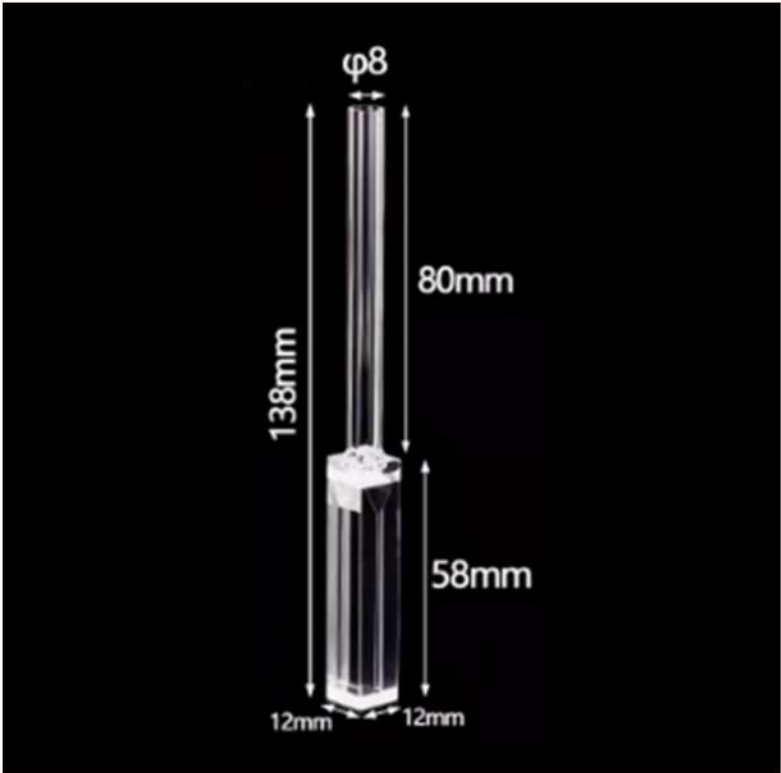
- **Material:** High-purity fused quartz ( $\geq 99.98\%$   $\text{SiO}_2$ )
- **Density:**  $2.2 \text{ g/cm}^3$
- **Fracture Modulus:**  $\geq 350 \text{ MPa}$
- **Thermal Expansion:**  $5.5 \times 10^{-7} / ^\circ\text{C}$
- **Max Temperature:**  $1100^\circ\text{C}$
- **Thermal Conductivity:**  $120\text{-}160 \text{ W/m}\cdot\text{K}$

## Optical Properties

- **Transmission Range:**  $200\text{-}2500\text{nm}$
- **UV Transmittance:**  $>80\%$  (Paired)
- **Refractive Index:**  $1.458$  ( $589.3\text{nm}$ )
- **Dispersion (Abbe #):**  $67.8$
- **Surface Finish:** Polished
- **Path Length Tolerance:**  $\pm 0.1\text{mm}$



# SIZE CHART



400µl Quartz UV Cuvette with Tube

Model	Description	Wavelength	Path Length	Volume	Transmittance	Outline Dimension
AT-BSM-035-1	400µl Quartz UV Cuvette with Tube	200nm-2500nm	10mm	400µl	>80% (Paired Testing)	12*12*58*138 mm



# SIZE CHART



3.5ml Quartz UV Cuvette with Tube

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM-035	3.5ml Quartz UV Cuvette with Tube	200nm-2500nm	10mm	3.5ml	>80% (Paired Testing)	12.5x12.5x45x95mm



## CUSTOMIZATION OPTIONS

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

- Custom path lengths
- Specialized cell volumes
- Custom tube diameters and placements
- Multi-tube configurations
- Integration-specific dimensions





# 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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TOQUARTZ® - Precision Quartz Solutions for Industry and Research

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