



TOQUARTZ

Product Catalog

TOQUARTZ®

Fused Quartz Macro Cuvette

Integrated Engineering & Agile Production
for Demanded Specifications



TOQUARTZ® FUSED QUARTZ MACRO CUVETTE

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 Macro Cuvette with fast delivery and consistent quality.



Product Overview

TOQUARTZ® Fused Quartz Macro Cuvette is designed for UV-VIS spectrophotometry applications requiring large optical path lengths and high sample volumes. Manufactured from high-purity fused quartz ($\geq 99.99\% \text{SiO}_2$), it offers excellent UV transparency from 190nm to 2500nm with no absorption peaks. The cuvette features a large optical window, precision-polished surfaces, and customizable dimensions to meet specific experimental needs.

TOQUARTZ® FUSED QUARTZ MACRO CUVETTE



Key Features

- Exceptional Optical Properties: Transparency $\geq 80\%$ (200-800nm) with no absorption peaks
- High-Purity Material: $\geq 99.99\%$ SiO₂ fused quartz for superior UV performance
- Precision Manufacturing: $\pm 0.1\text{mm}$ dimensional tolerance
- Thermal Stability: Up to 600°C operating temperature
- Chemical Resistance: Excellent stability against acids, bases, and solvents (except HF)
- Customization Options: Available with various path lengths, volumes, and specialized features



TOQUARTZ® FUSED QUARTZ MACRO CUVETTE



Applications

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- Protein quantification and nucleic acid analysis
 - Chemical reaction monitoring
 - Large volume sample analysis
 - Precision instrument calibration
 - Research and development in pharmaceutical and biotechnology sectors



TECHNICAL SPECIFICATIONS

Physical Properties:

- Material: Fused Quartz ($\geq 99.99\%$ SiO_2)
- Density: 2.2 g/cm^3
- Wall Thickness: $1.25\text{mm} \pm 0.1\text{mm}$
- Surface Finish: Optical polish, fire polished edges

Optical Properties:

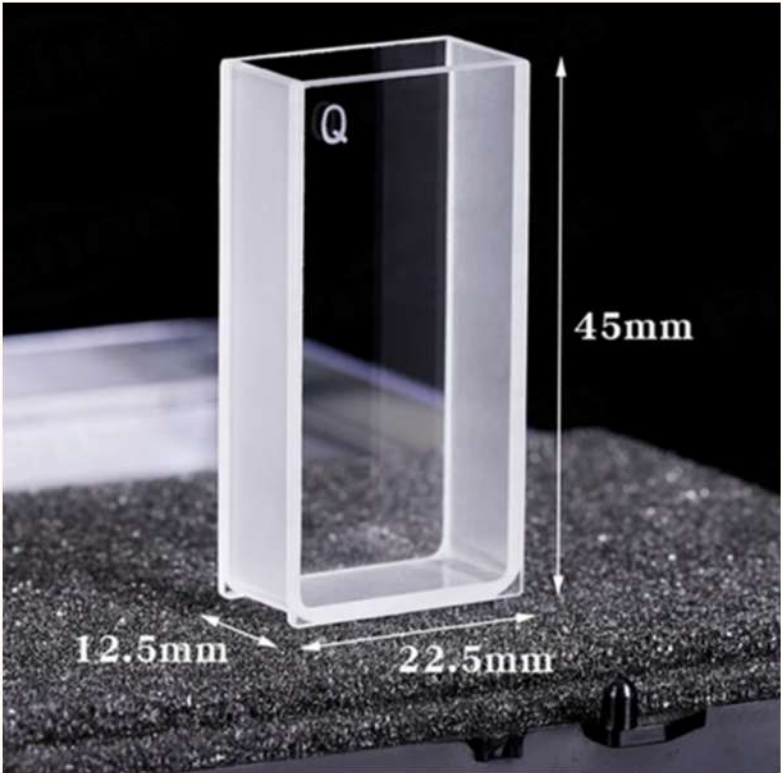
- Wavelength Range: 190nm-2500nm
- Transparency: $\geq 80\%$ (200-800nm)
- Refractive Index: 1.458 (at 587.6nm)
- Thermal Expansion: $5.5 \times 10^{-7} / ^\circ\text{C}$

Chemical Properties:

- Acid Resistance: Excellent (except HF)
- Alkali Resistance: Good up to pH 12
- Solvent Resistance: Excellent
- OH Content: $< 30 \text{ ppm}$



SIZE CHART

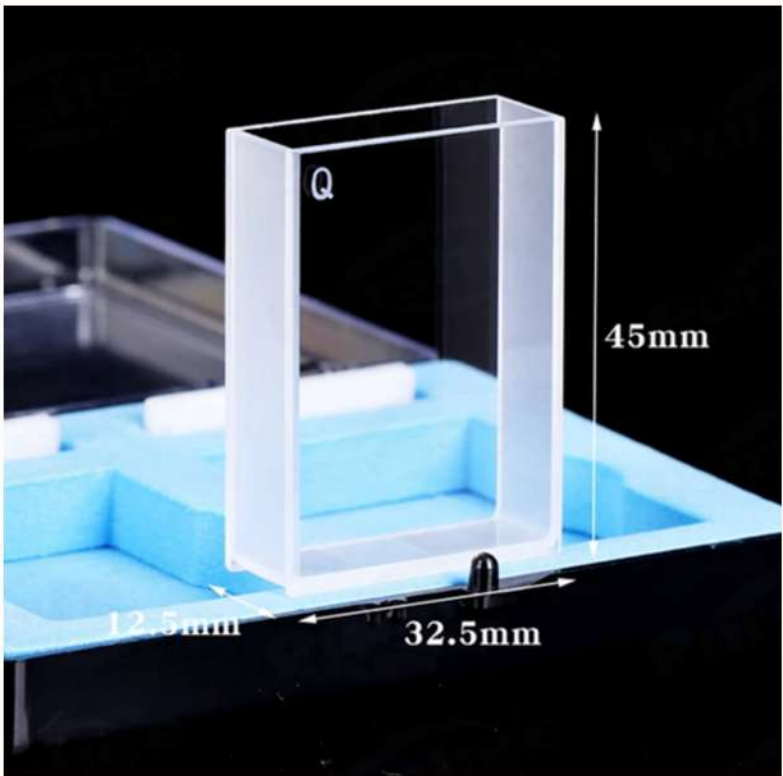


7ml Fused Quartz Macro Cuvette

Model	Description	Wavele ngth	Path Length	Volume	Thermostabil ity	Outline Dimension
AT-BSM-040	7ml Fused Quartz Macro Cuvette	200nm-2500nm	10mm	7ml	600℃	12.5x22.5x45mm



SIZE CHART

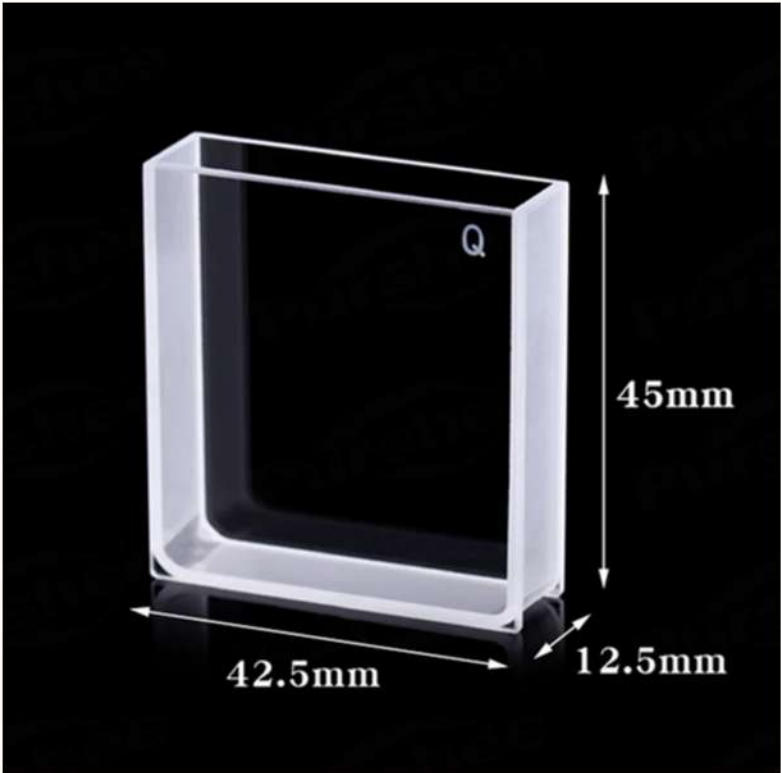


10.5ml Fused Quartz Macro Cuvette

Model	Description	Wavele ngth	Path Length	Volume	Thermostabil ity	Outline Dimension
AT-BSM-003	10.5ml Fused Quartz Macro Cuvette	200nm-2500nm	10mm	10.5ml	600℃	12.5x32.5x45mm



SIZE CHART



14ml Fused Quartz Macro Cuvette

Model	Description	Wavele ngth	Path Length	Volume	Thermostabil ity	Outline Dimension
AT-BSM-002	14ml Fused Quartz Macro Cuvette	200nm-2500nm	10mm	14ml	600°C	12.5x42.5x45mm



SIZE CHART



17.5ml Fused Quartz Macro Cuvette

Model	Description	Wavele ngth	Path Length	Volume	Thermostabil ity	Outline Dimension
AT-BSM-007	17.5ml Fused Quartz Macro Cuvette	200nm-2500nm	50mm	17.5ml	600℃	12.5x52.5x45mm



CUSTOMIZATION OPTIONS

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

- Specialized path lengths from 1mm to 100mm
- Custom wall thickness options (0.8mm-3mm)
- Modified height and width dimensions
- Specialized features (flow-through ports, black walls, multiple optical windows)



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.