



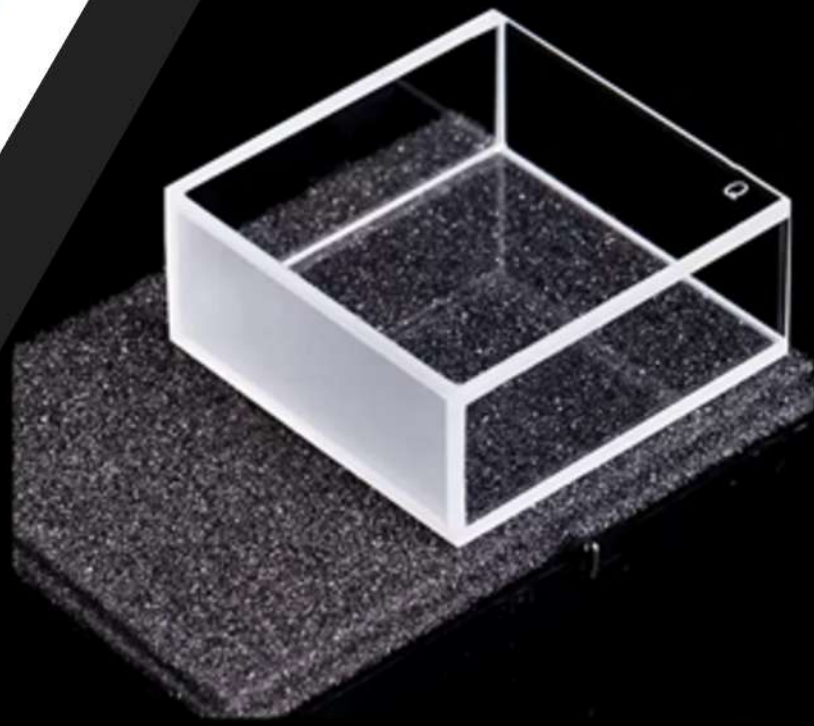
TOQUARTZ

Product Catalog

TOQUARTZ®

Quartz Fluorescence Cuvette without Cap

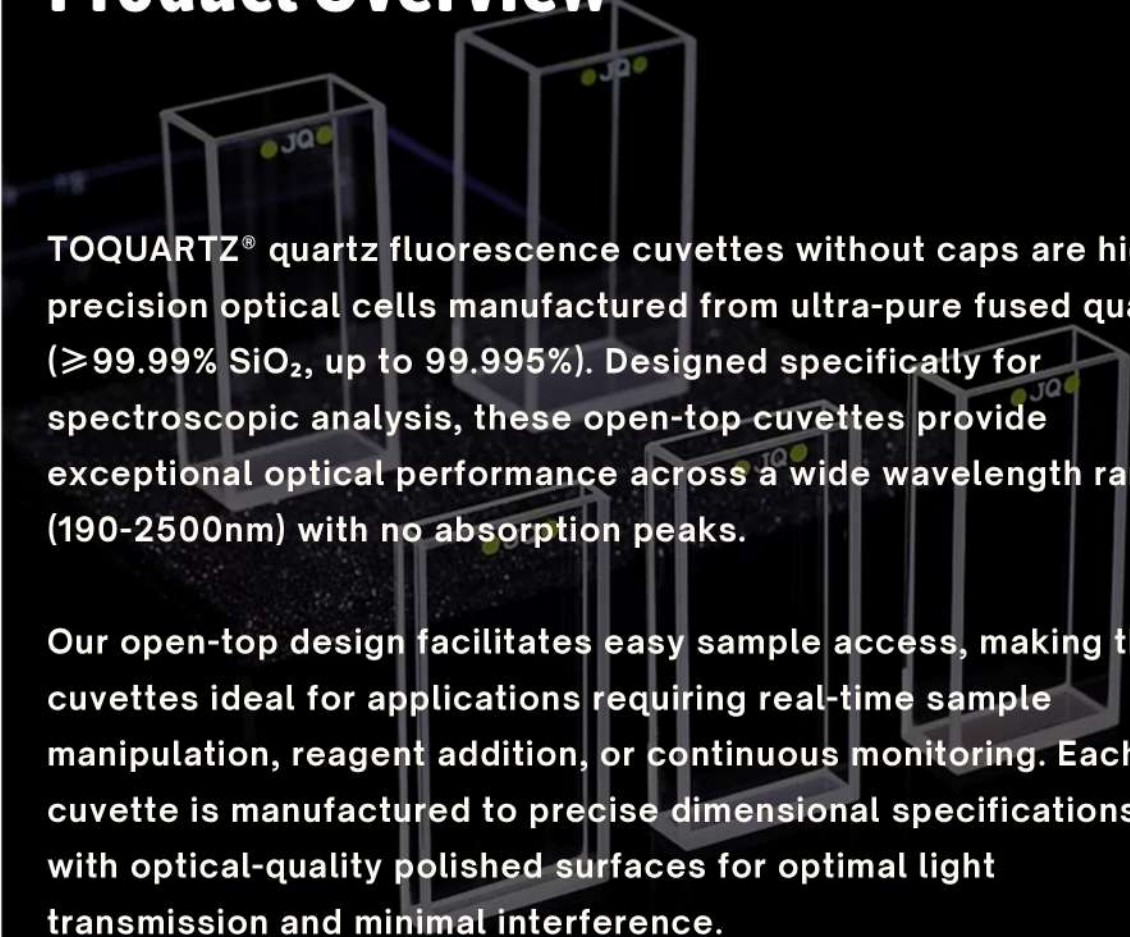
Integrated Engineering & Agile Production
for Demanded Specifications



TOQUARTZ® QUARTZ FLUORESCENCE CUVETTE WITHOUT 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® Quartz Fluorescence Cuvette without Cap with fast delivery and consistent quality.

Product Overview



TOQUARTZ® quartz fluorescence cuvettes without caps are high-precision optical cells manufactured from ultra-pure fused quartz ($\geq 99.99\%$ SiO₂, up to 99.995%). Designed specifically for spectroscopic analysis, these open-top cuvettes provide exceptional optical performance across a wide wavelength range (190-2500nm) with no absorption peaks.

Our open-top design facilitates easy sample access, making these cuvettes ideal for applications requiring real-time sample manipulation, reagent addition, or continuous monitoring. Each cuvette is manufactured to precise dimensional specifications with optical-quality polished surfaces for optimal light transmission and minimal interference.

TOQUARTZ® QUARTZ FLUORESCENCE CUVETTE WITHOUT CAP



Key Features

- Superior Optical Properties: Exceptional transparency from UV to NIR (190-2500nm)
- High-Purity Material: $\geq 99.99\%$ SiO₂ (up to 99.995%) with minimal trace elements
- Chemical Resistance: Excellent resistance to acids, bases, and most chemicals (except HF)
- Open-Top Design: Convenient sample access for quick loading and real-time monitoring

TOQUARTZ® QUARTZ FLUORESCENCE CUVETTE WITHOUT CAP



Applications

- **Fluorescence Spectroscopy:** Low background interference for sensitive measurements
- **UV/Visible Absorption:** High transparency across UV-Vis spectrum
- **Kinetics Studies:** Real-time monitoring with reagent addition capabilities
- **Analytical Chemistry:** Precise path lengths for quantitative analysis
- **Biochemical Analysis:** DNA/RNA quantification and protein studies



TECHNICAL SPECIFICATIONS

Physical Properties

- Material: Fused Quartz (SiO_2)
- Purity: $\geq 99.99\%$ (up to 99.995%)
- Density: 2.2 g/cm^3
- Tensile Strength: $\geq 350 \text{ MPa}$
- Thermal Expansion Coefficient: $5.5 \times 10^{-7} / ^\circ\text{C}$
- Maximum Operating Temperature: 1100°C
- Thermal Conductivity: $1.3 \text{ W/m}\cdot\text{K}$

Optical Properties

- Transmission Range: 190-2500nm
- Refractive Index (at 589.3nm): 1.4585
- UV Cutoff: $\leq 185\text{nm}$
- Surface Quality: Optically polished, scratch-free
- Bubble Content: Class 0 (bubble-free)

Chemical Properties

- Chemical Resistance: Excellent (except HF)
- Acid Resistance: High (pH 1-14)
- Water Absorption: Nil



SIZE CHART



53000μl Quartz Fluorescence Cuvette without Cap Path Length 20mm

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-6009	53000μl Quartz Fluorescence Cuvette without Cap Path Length 20mm	20mm	53000μl	24x54x55mm



SIZE CHART



53000μl Quartz Fluorescence Cuvette without Cap Path Length 50mm

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-6009-1	53000μl Quartz Fluorescence Cuvette without Cap Path Length 50mm	50mm	53000μl	24x54x55mm



SIZE CHART



2100µl Quartz Fluorescence Cuvette without Cap

Model	Description	PathLength	Volume
AT-BSM-6002-1	2100µl Quartz Fluorescence Cuvette without Cap	3mm	2100µl



SIZE CHART

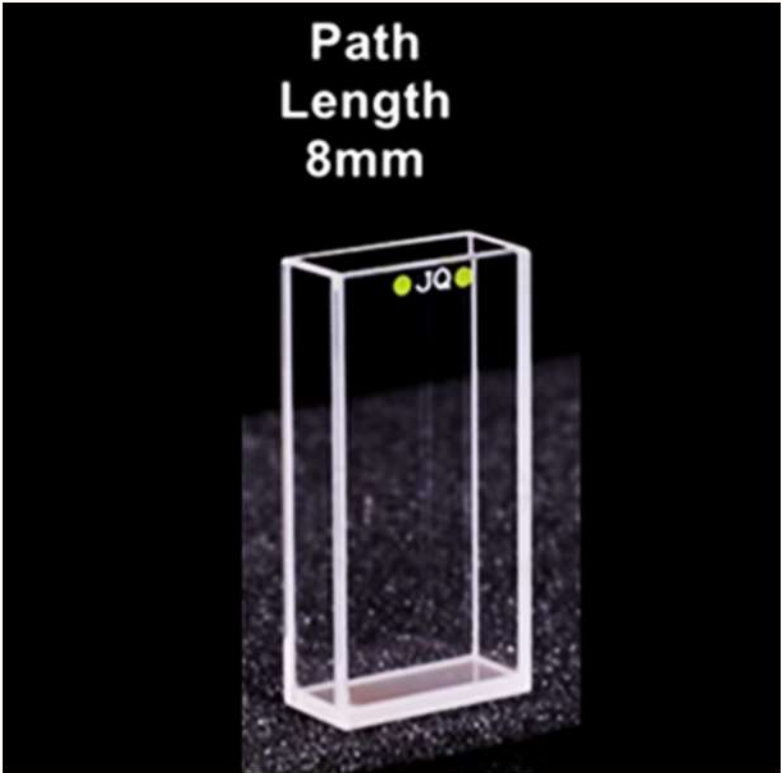


3500µl Quartz Fluorescence Cuvette without Cap

Model	Description	PathLength	Volume
AT-BSM-6002-2	3500µl Quartz Fluorescence Cuvette without Cap	5mm	3500µl



SIZE CHART

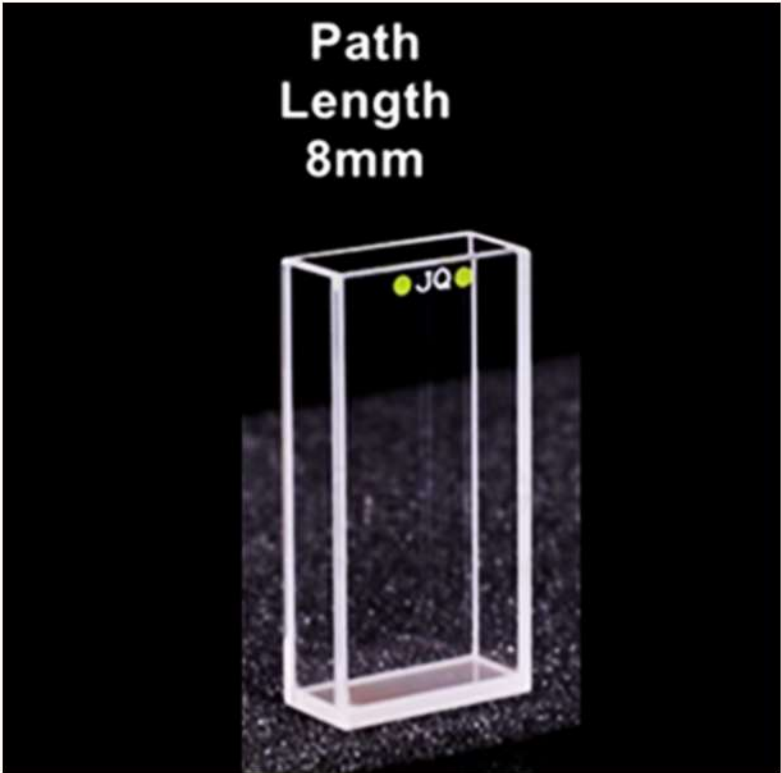


5600µl Quartz Fluorescence Cuvette without Cap

Model	Description	PathLength	Volume
AT-BSM-6002-3	5600µl Quartz Fluorescence Cuvette without Cap	8mm	5600µl



SIZE CHART



7000µl Quartz Fluorescence Cuvette without Cap

Model	Description	PathLength	Volume
AT-BSM-6002-4	7000µl Quartz Fluorescence Cuvette without Cap	10mm	7000µl



CUSTOM ENGINEERING SERVICES

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

- Dimensional Customization: Custom path lengths (1-100mm), non-standard widths and heights
- Surface Modifications: Selective window polishing, frosted sides, reference marks
- Material Options: High-OH vs. Low-OH quartz selection, ultra-high purity options



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

Email: info@toquartz.com

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.