



TOQUARTZ

Product Catalog

TOQUARTZ®

Quartz Black Wall Fluorescence Flow Cell with M6 Threaded Connector

Integrated Engineering & Agile Production
for Demanded Specifications





TOQUARTZ® QUARTZ BLACK WALL FLUORESCENCE FLOW CELL WITH M6 THREADED CONNECTOR

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 Black Wall Fluorescence Flow Cell with M6 Threaded Connector with fast delivery and consistent quality.



Product Overview

TOQUARTZ® high-purity fused quartz flow cell with black inner walls for enhanced fluorescence detection. Features dual optical windows and M6 threaded connectors for seamless integration with pump and manifold systems. Precision optical polishing ensures $\leq 0.3\%$ transmittance deviation, ideal for UV-Visible-Fluorescence spectroscopy and flow analysis applications.



TOQUARTZ® QUARTZ BLACK WALL FLUORESCENCE FLOW CELL WITH M6 THREADED CONNECTOR



Key Features

- High-Purity Material: $\geq 99.98\%$, up to 99.995% SiO₂ purity
- Black Inner Wall Design: Minimizes stray light for enhanced signal-to-noise ratio
- Dual Optical Windows: Precision-polished for accurate spectroscopic analysis
- M6 Threaded Connector: Secure integration with pump and manifold systems
- Precision Manufacturing: $\leq 0.3\%$ transmittance deviation



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Applications

- Fluorescence Spectroscopy: Enhanced detection sensitivity for trace analysis
- Pharmaceutical Analysis: Drug dissolution testing and quality control
- Online Process Monitoring: Continuous flow analysis systems
- Environmental Testing: Water quality and pollutant monitoring



TECHNICAL SPECIFICATIONS

Physical Properties

- **Material:** JGS-1 Fused Quartz
- **Density:** 2.2 g/cm³
- **Max Operating Temperature:** 1,100°C
- **Thermal Expansion:** $5.5 \times 10^{-7}/^{\circ}\text{C}$
- **Surface Finish:** Optical Polish

Chemical Properties

- **SiO₂ Content:** $\geq 99.98\%$
- **OH Content:** < 50 ppm
- **Chemical Resistance:** Excellent
- **Acid Resistance:** High (except HF)
- **Water Absorption:** Nil

Optical Properties

- **Transmittance (UV):** $\geq 80\%$ (200-400nm)
- **Transmittance (VIS):** $\geq 90\%$ (400-800nm)
- **Transmittance Deviation:** $\leq 0.3\%$
- **Refractive Index (589nm):** 1.458
- **Surface Quality:** 60-40 Scratch-Dig



SIZE CHART

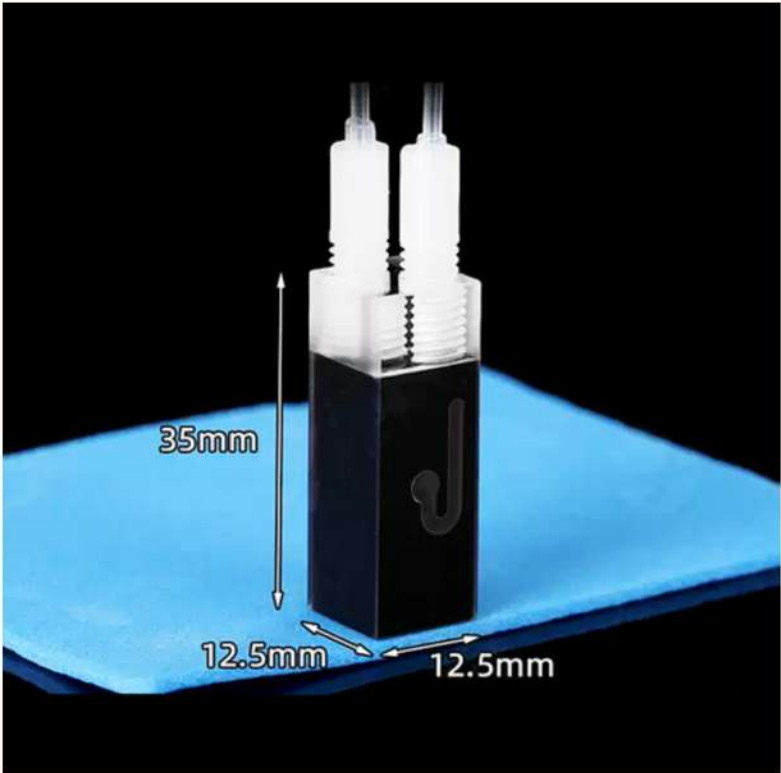


450µl Quartz Black Wall Fluorescence Flow Cell with M6 Threaded Connector

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8011	450µl Quartz Black Wall Fluorescence Flow Cell with M6 Threaded Connector	10mm	450µl	12.5x12.5x35 mm



SIZE CHART



70µl Quartz Black Wall Fluorescence Flow Cell with M6 Threaded Connector

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8011-1	70µl Quartz Black Wall Fluorescence Flow Cell with M6 Threaded Connector	10mm	70µl	12.5x12.5x35 mm



CUSTOM ENGINEERING SERVICES

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

- Dimensional Customization: Custom path lengths (1-50 mm), modified volumes
- Connection Adaptations: Alternative thread sizes, specialized fittings
- Material Modifications: Specialized optical coatings, enhanced transmission



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.