



# TOQUARTZ

## Product Catalog

# TOQUARTZ®

## Quartz Fluorescence Flow-Through Cell with Glass Tube Connector

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





# TOQUARTZ® QUARTZ FLUORESCENCE FLOW-THROUGH CELL WITH GLASS TUBE 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 Fluorescence Flow-Through Cell with Glass Tube Connector with fast delivery and consistent quality.



## Product Overview

TOQUARTZ® Quartz Fluorescence Flow-Through Cell with Glass Tube Connector is a precision-engineered optical cuvette designed for continuous fluorescence and absorbance measurements in flow-based spectroscopic systems. Made from high-purity fused quartz ( $\geq 99.99\% \text{SiO}_2$ ), this cell offers outstanding transparency in the UV-VIS-NIR range (190–2500 nm) and ultra-low background fluorescence, ensuring high signal integrity for trace-level detection.



# TOQUARTZ® QUARTZ FLUORESCENCE FLOW-THROUGH CELL WITH GLASS TUBE CONNECTOR



## Key Features

- High-purity quartz construction ( $\geq 99.99\%$  SiO<sub>2</sub>) for maximum optical clarity
- Integrated glass tube connectors for reliable, leak-free fluid interfacing
- Exceptional UV-VIS-NIR transparency across 190-2500 nm wavelength range
- Ultra-low background fluorescence for enhanced sensitivity in trace analysis
- Chemical resistance to most acids, bases, and organic solvents



# TOQUARTZ® QUARTZ FLUORESCENCE FLOW-THROUGH CELL WITH GLASS TUBE CONNECTOR



## Applications

- HPLC post-column fluorescence detection
- Environmental and water quality analysis
- Biochemical assay monitoring
- Process analytical technology (PAT)
- Research and development in optical spectroscopy
- Industrial process control and monitoring



# TECHNICAL SPECIFICATIONS

## Physical Properties

- **Material:** High-purity fused quartz ( $\geq 99.99\%$   $\text{SiO}_2$ )
- **Standard Optical Path Length:** 10 mm (custom options available)
- **Window Configuration:** 4-sided transparent optical windows
- **Connector Type:** Integrated glass tube connectors
- **Temperature Resistance:** Up to  $1100^\circ\text{C}$
- **Tubing Compatibility:** Standard PTFE or silicone tubing

## Chemical Properties

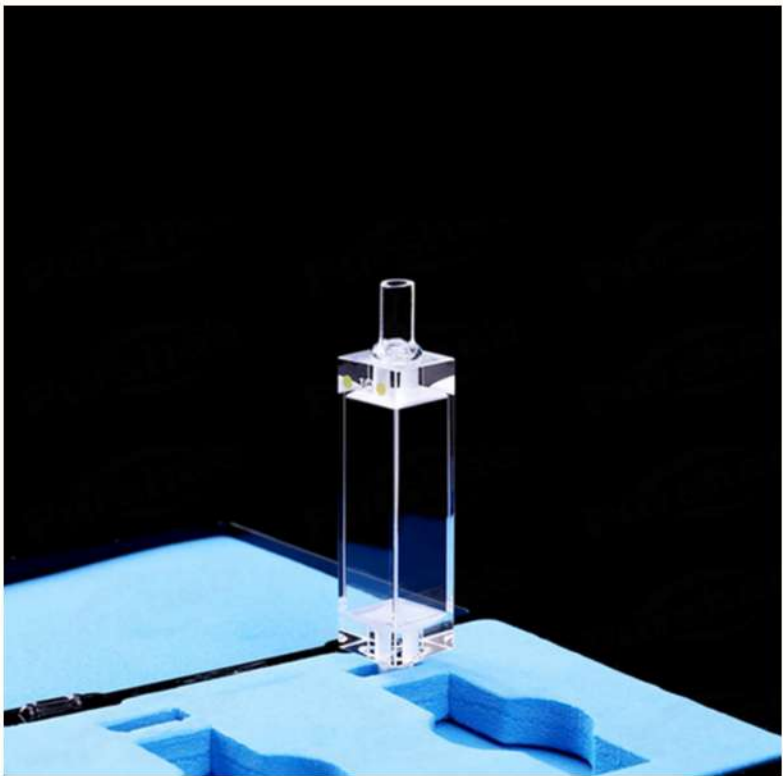
- **Chemical Resistance:** Resistant to most acids, bases, and organic solvents
- **Material Purity:**  $\geq 99.99\%$   $\text{SiO}_2$
- **Leachable Metals:**  $< 1$  ppb for most transition metals
- **pH Range Stability:** 1-14 (full range)

## Optical Properties

- **Wavelength Range:** 190-2500 nm (UV-VIS-NIR)
- **Transmission (at 220 nm):**  $> 80\%$
- **Background Fluorescence:** Ultra-low
- **Refractive Index (at 589.3 nm):** 1.458
- **Surface Quality:** 60-40 scratch-dig



# SIZE CHART



3.5ml Quartz Fluorescence Flow Cell with Glass Tube, Dual-Sided Transmission (Small Tube)

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8001	3.5ml Quartz Fluorescence Flow Cell with Glass Tube, Dual-Sided Transmission (Small Tube)	10mm	3.5ml	12.5x12.5x45 mm



# SIZE CHART



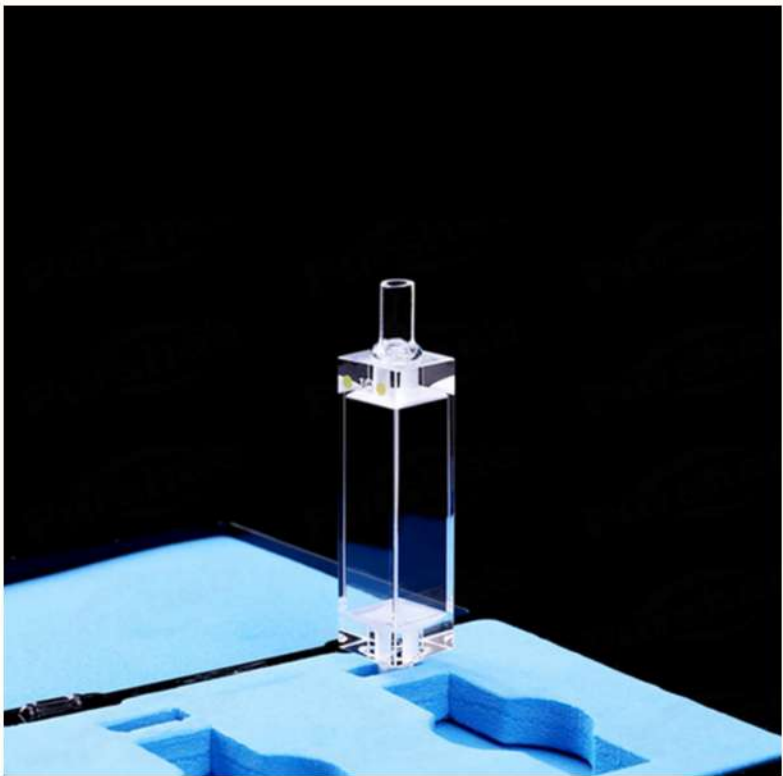
3.5ml Quartz Fluorescence Flow Cell with Glass Tube, Dual-Sided Transmission (Large Tube)

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8001-1	3.5ml Quartz Fluorescence Flow Cell with Glass Tube, Dual-Sided Transmission (Large Tube)	10mm	3.5ml	12.5x12.5x45 mm





# SIZE CHART



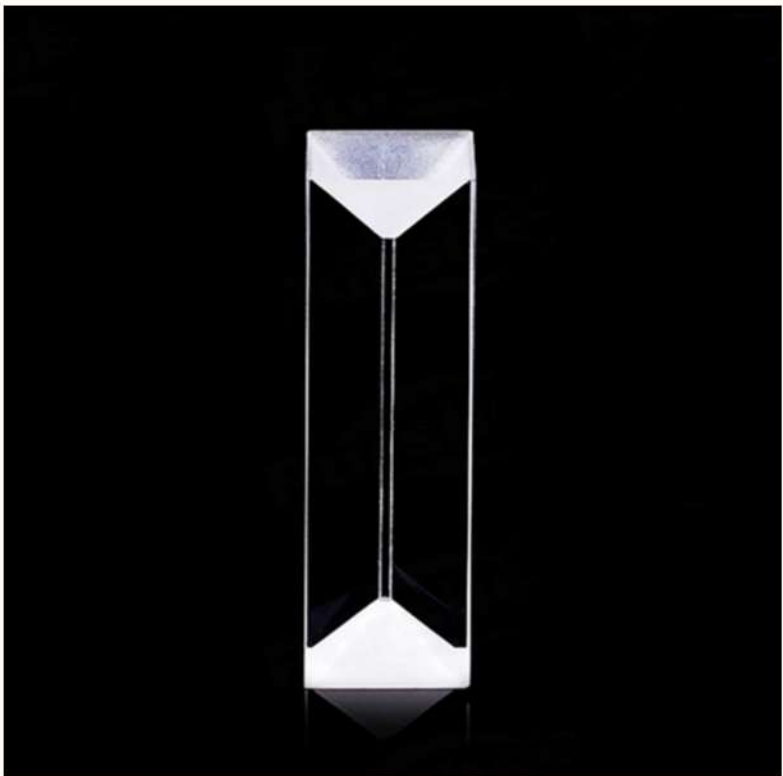
3.5ml Quartz Fluorescence Flow Cell with Glass Tube, Four-Sided Optical Access (Small Tube)

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8001-2	3.5ml Quartz Fluorescence Flow Cell with Glass Tube, Four-Sided Optical Access (Small Tube)	10mm	3.5ml	12.5x12.5x45 mm





# SIZE CHART



14µl Quartz Fluorescence Flow Cuvette for Ultralow Volume Applications

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8012	14µl Quartz Fluorescence Flow Cuvette for Ultralow Volume Applications	0.6mm	14µl	12.5x12.5x25 mm



# SIZE CHART



1.5ml Quartz Fluorescence Flow Cuvette with Circular Chamber

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8014	1.5ml Quartz Fluorescence Flow Cuvette with Circular Chamber	10mm	1.5ml	12.5x12.5x25 mm



# SIZE CHART

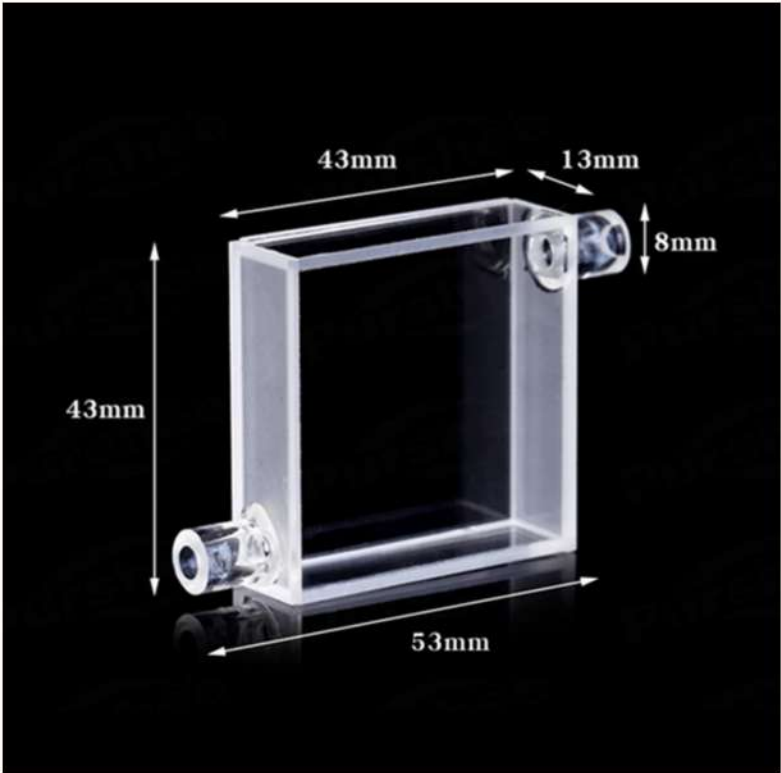


700µl Quartz Fluorescence Flow Cell with Four-Sided Optical Transmission

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8023	700µl Quartz Fluorescence Flow Cell with Four-Sided Optical Transmission	2mm	700µl	12.5x4.5x45mm



# SIZE CHART



16ml Quartz Fluorescence Flow Cell Cuvette for Large Volume Analysis

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8031	16ml Quartz Fluorescence Flow Cell Cuvette for Large Volume Analysis	10mm	16ml	43x43x13mm





# SIZE CHART



4ml Quartz Fluorescence Flow Cuvette with Elongated Body Design

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8031-2	4ml Quartz Fluorescence Flow Cuvette with Elongated Body Design	10mm	4ml	13x13x45mm



## CUSTOM ENGINEERING SERVICES

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

- Optical Path Length: 2-50 mm
- Internal Volume: 10-500  $\mu\text{L}$
- Flow Configurations: Standard, Z-flow, L-flow
- Connector Orientations: Vertical, horizontal, custom angles
- Pressure Ratings: Standard (100 psi) to high-pressure (300 psi)
- Special Materials: Ultra-high purity options available



# 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](mailto:info@toquartz.com)

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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.*