



TOQUARTZ

Product Catalog

TOQUARTZ®

Quartz Dual-Channel Fluorescence Cuvette

Integrated Engineering & Agile Production
for Demanded Specifications



TOQUARTZ® QUARTZ DUAL-CHANNEL FLUORESCENCE 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® Quartz Dual-Channel Fluorescence Cuvette with fast delivery and consistent quality.



Product Overview

TOQUARTZ® High-precision dual-channel fluorescence cuvette made from premium quartz (99.995% SiO₂) with excellent UV-VIS-NIR transmittance. Features PTFE screw cap and dual inlet/outlet ports for sealed, leak-proof fluorescence spectroscopy and micro-volume analysis in laboratory settings.

TOQUARTZ® QUARTZ DUAL-CHANNEL FLUORESCENCE CUVETTE



Key Features

- Material: High-purity fused quartz ($\geq 99.995\%$ SiO₂)
- Design: Dual-channel with side arms for inlet/outlet
- Cap: PTFE screw cap with O-ring for airtight sealing
- Thermal Stability: Withstands temperatures up to 1100°C
- Chemical Resistance: Stable against acids, alkalis, and organic solvents

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Applications

- Fluorescence spectroscopy
- Micro-volume sample analysis
- Flow-through detection systems
- Biochemical assays (DNA, RNA, protein)
- Photochemical and catalytic reaction monitoring





TECHNICAL SPECIFICATIONS

Physical Properties

- Material: High-purity fused quartz ($\geq 99.995\%$ SiO_2)
- Density: 2.2 g/cm^3
- Thermal Expansion: $5.5 \times 10^{-7}/\text{K}$
- Max Temperature: 1100°C
- Thermal Conductivity: $1.3 \text{ W/m}\cdot\text{K}$

Chemical Properties

- Acid Resistance: Excellent (except HF)
- Alkali Resistance: Good at room temperature
- Solvent Resistance: Excellent for all organic solvents
- Water Absorption: $< 0.001\%$
- Chemical Purity: $\geq 99.995\%$ SiO_2

Optical Properties

- Transmission Range: 200-2500nm
- UV Cutoff: $< 200\text{nm}$
- Refractive Index: 1.46 at 589nm
- Transmittance: $> 80\%$ (paired testing)
- Surface Quality: 60/40 scratch/dig



SIZE CHART



Quartz dual-channel fluorescence cuvette

Model	Description	Wavelength	Path Length	Volume	Transmittance	Outline Dimension
AT-BSM-6001	Quartz dual-channel fluorescence cuvette	200nm-2500nm	10mm	350μl-3500μl	>80% (Paired Testing)	12.5x4.5x55 mm



SIZE CHART



Quartz fluorescence cuvette with dual ports

Model	Description	Wavelength	Path Length	Volume	Transmittance	Outline Dimension
AT-BSM-6001-1	Quartz fluorescence cuvette with dual ports	200nm-2500nm	10mm	350µl-3500µl	>80% (Paired Testing)	12.5x4.5x45 mm



CUSTOM ENGINEERING SERVICES

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

- Custom path lengths
- Specialized internal volumes
- Modified external dimensions for instrument compatibility
- Adjustable port placement and orientation
- Special optical window configurations
- Black-walled versions for fluorescence measurements
- Custom surface treatments (polished/frosted)



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.