TOQUARTZ

TOQUARTZ
Product Catalog

TOQUARTZ®
Quartz Flow Cell Counting Cuvette

Integrated Engineering & Agile Production
for Demanded Specifications

TOQUARTZ®
QUARTZ FLOW CELL COUNTING 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 Flow Cell Counting Cuvette with fast delivery and consistent quality.

Product Overview

TOQUARTZ® Quartz Flow Cell Counting Cuvette is engineered from fused quartz (⩾ 99.98%, up to 99.995% SiO_2), delivering stable optical transmission from 190–2500 nm with no absorption peaks. Designed for high-throughput laboratories, it supports spectrophotometry, fluorescence assays, and continuous particle counting applications. Its flow-through architecture and transparent walls enable precise optical measurements, while stainless-steel tube connectors ensure robust integration with analytical instruments.

TOQUARTZ®
QUARTZ FLOW CELL COUNTING CUVETTE

Key Features

- Transparent quartz walls ensure accurate UV–VIS–NIR measurements.
- Flow-through chamber supports continuous sample analysis with minimal dead volume.
- Stainless-steel tube connectors provide reliable sealing and system compatibility.
- Optical polishing guarantees ⩽0.3% transmittance deviation for sensitive assays.
- Detachable design allows convenient cleaning and reduced downtime in laboratories.

TOQUARTZ®
QUARTZ FLOW CELL COUNTING CUVETTE

TECHNICAL SPECIFICATIONS

Physical Properties

- Density: 2.2 g/cm³
- Softening Point: 1680 °C
- Thermal Expansion: ≤0.55×10^{-6}/K
- Thermal Conductivity: 120–160 W/m·K
- Service Temperature: up to 1100 °C

Chemical Properties

- SiO_2 Purity: ≥99.99%
- Acid Resistance: stable in HCl and H_2SO_4
- Alkali Resistance: stable up to 1N NaOH
- Gas Stability: resistant to fluorinated gases
- Solvent Compatibility: compatible with most organics

Optical Properties

- Transmission Range: 190–2500 nm
- Transmittance Deviation: ≤0.3%
- Absorption Peaks: none
- Refractive Index (589 nm): 1.46
- Birefringence: ≤5 nm/cm

Mechanical Properties

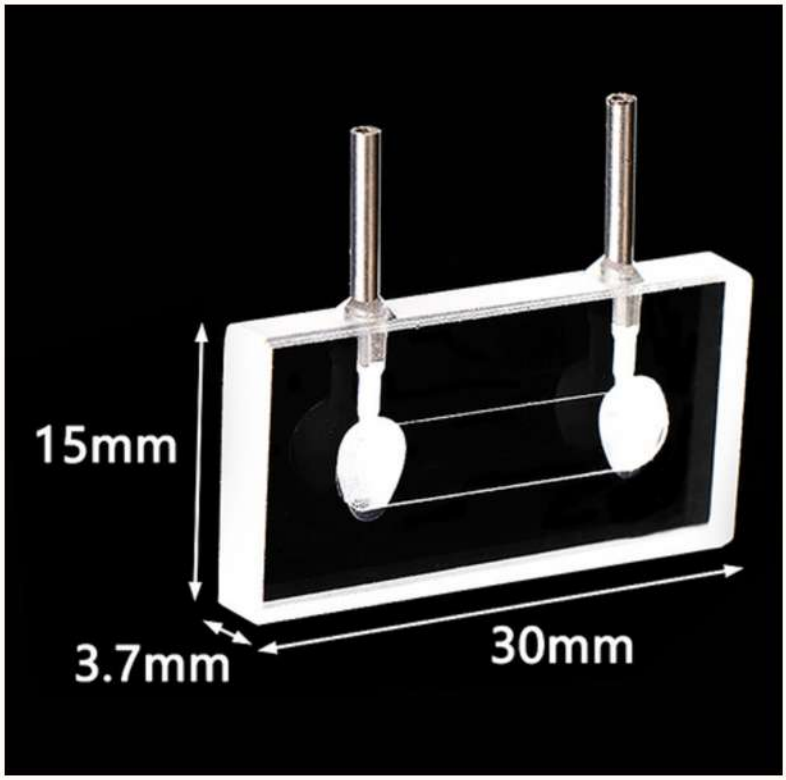
- Fracture Modulus: ≥350 MPa
- Compressive Strength: ≥1100 MPa
- Bending Strength: ≥70 MPa
- Young's Modulus: 72 GPa
- Hardness (Mohs): 6.5

SIZE CHART

16μl Quartz Flow Cell Counting Cuvette

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8025	16μl Quartz Flow Cell Counting Cuvette	0.2mm	16μl	30x15x4mm

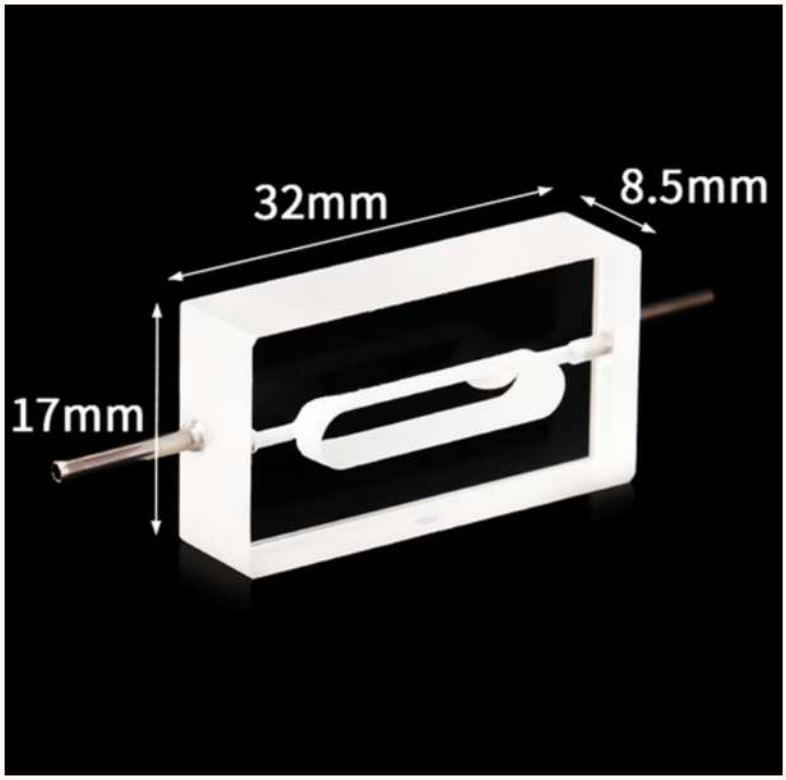
SIZE CHART



Quartz Flow Cell Counting Cuvette 0.2mm Path Length

Model	Description	PathLength	Windows	Outline Dimension
AT-BSM-8025-1	Quartz Flow Cell Counting Cuvette 0.2mm Path Length	0.2mm	2	30x15x3.7mm

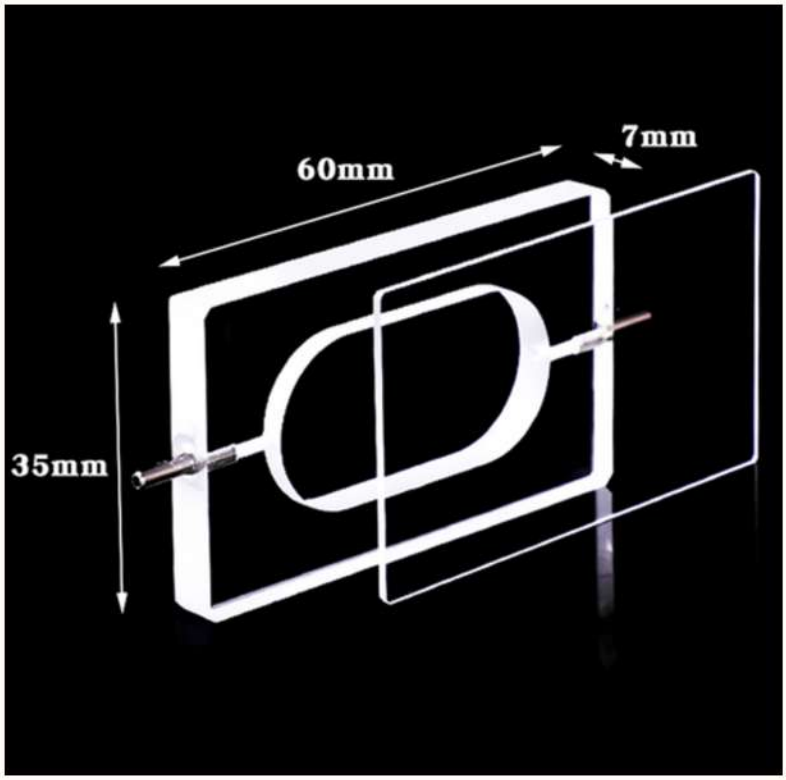
SIZE CHART



Quartz Flow Cell Counting Cuvette 2 optical windows

Model	Description	PathLength	Windows	Outline Dimension
AT-BSM-8025-2	Quartz Flow Cell Counting Cuvette 2 optical windows	5mm	2	32x17x8.5mm

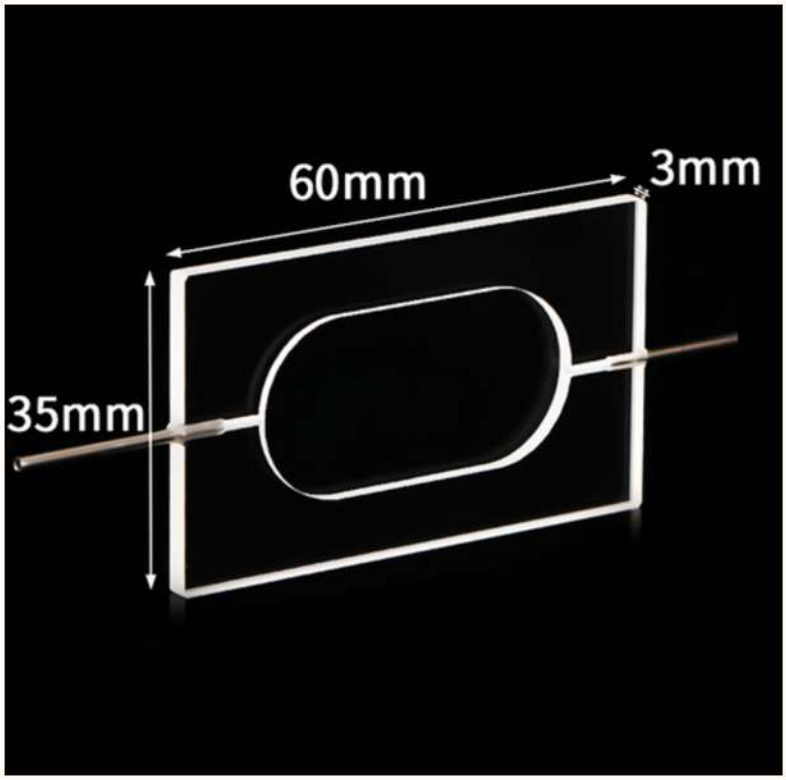
SIZE CHART



Quartz Flow Cell Counting Cuvette 5mm Path Length

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8029	Quartz Flow Cell Counting Cuvette 5mm Path Length	5mm	/	60x35x7mm

SIZE CHART



Quartz Flow Cell Counting Cuvette 2mm Path Length

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8029-1	Quartz Flow Cell Counting Cuvette 2mm Path Length	2mm	/	60x35x3mm

CUSTOM ENGINEERING SERVICES

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

- Optical path length tailored to specific analytical methods.
- Chamber geometry variations including dual-channel and flow-optimized designs.
- Connector configurations with stainless-steel tube integration.
- Material and surface adjustments for enhanced durability and stability.
- Custom design process with technical consultation for unique applications.

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.