



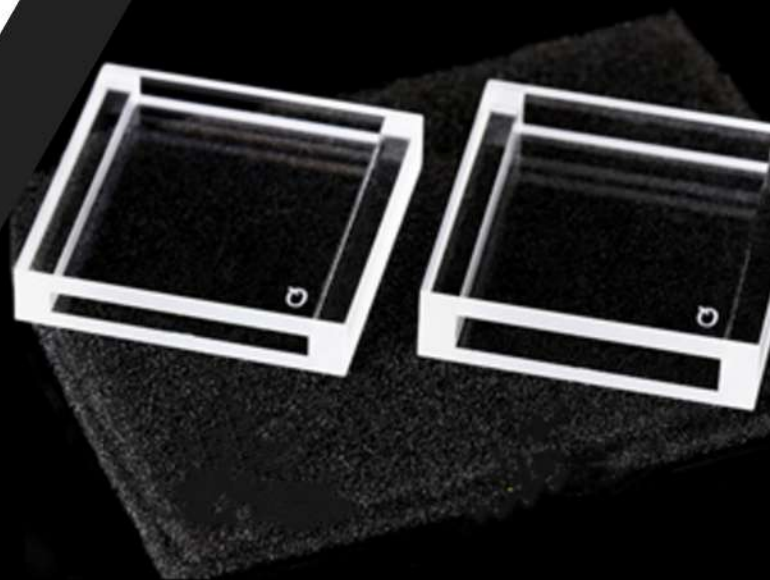
# TOQUARTZ

## Product Catalog

# TOQUARTZ®

## Quartz Flow Through Cuvette Both Ends Open

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





TOQUARTZ®

## QUARTZ FLOW THROUGH CUVETTE BOTH ENDS OPEN

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 Through Cuvette Both Ends Open with fast delivery and consistent quality.



## Product Overview

TOQUARTZ® Quartz Flow Through Cuvette Both Ends Open is designed for continuous liquid analysis in UV-Vis and NIR spectroscopy. Manufactured from high-purity fused quartz ( $\geq 99.99\%$  SiO<sub>2</sub>), it ensures stable optical path length, wide transmission range from 120–4500 nm, and strong chemical resistance to acids, bases, and solvents. The both-ends-open design supports seamless integration into flow systems, minimizing dead volume and enabling rapid sample exchange.

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## QUARTZ FLOW THROUGH CUVETTE BOTH ENDS OPEN



## Key Features

- Dual transparent windows with precise optical alignment
- Broad transmission range from 120–4500 nm
- Temperature resistance up to 1100 °C
- Both-ends-open design for continuous sample flow
- Customizable in path length, geometry, and connector configuration



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## QUARTZ FLOW THROUGH CUVETTE BOTH ENDS OPEN



## Applications

- Pharmaceutical Testing
- Environmental Monitoring
- Chemical Process Control
- Food Science Research
- Biotechnology Analysis



# TECHNICAL SPECIFICATIONS

## Physical Properties

- Density: 2.2 g/cm<sup>3</sup>
- Fracture Strength:  $\geq 350$  MPa
- Thermal Conductivity: 120–160 W/m·K
- Maximum Service Temperature: 1100 °C
- Thermal Expansion Coefficient:  $\leq 0.55 \times 10^{-6}/\text{K}$

## Chemical Properties

- Purity:  $\geq 99.99\%$  SiO<sub>2</sub>
- Resistant to acids and bases (except HF)
- Stable in molten salts and fluorinated gases
- Alkali resistance index  $> 99\%$
- Low corrosion loss rate  $< 0.01$  mg/cm<sup>2</sup>·day

## Optical Properties

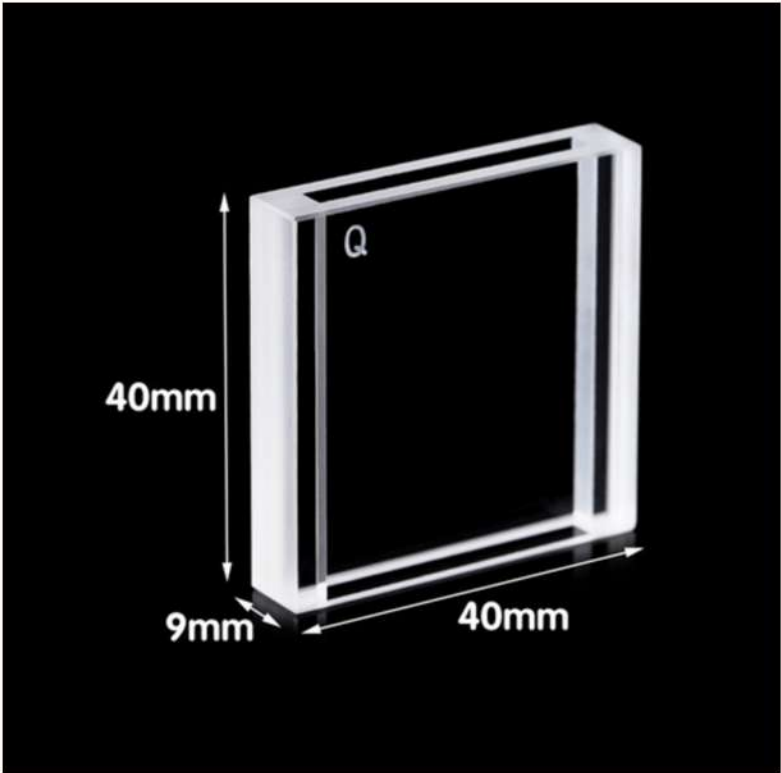
- Transmission Range: 120–4500 nm
- UV Transmittance:  $> 85\%$  at 200 nm
- Visible Light Transmission:  $> 92\%$  at 400–700 nm
- NIR Transmission: Stable up to 2500 nm
- Transmittance Deviation:  $\leq 0.3\%$

## Mechanical Properties

- Elastic Modulus: 72 GPa
- Poisson's Ratio: 0.17
- Tensile Strength: 50 MPa
- Hardness: Mohs 7
- Wear resistance for high-flow applications



# SIZE CHART

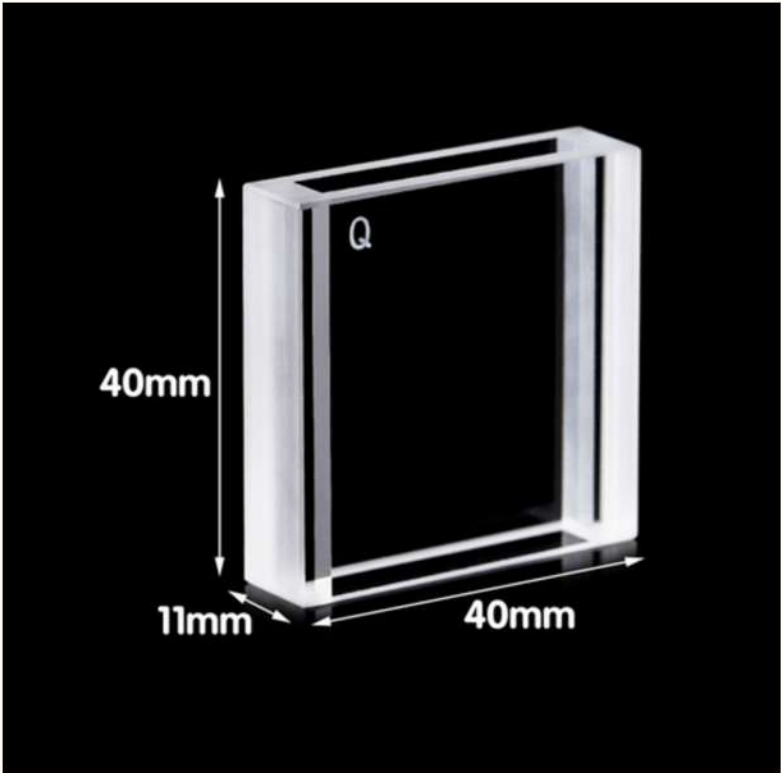


150µl Quartz Flow Cell with Inlet and Outlet Tubing

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8035	3500µl Quartz Flow Through Cuvette Both Ends Open	3mm	3500µl	40x40x9mm



# SIZE CHART



6200µl Quartz Flow Through Cuvette Both Ends Open

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8035-1	6200µl Quartz Flow Through Cuvette Both Ends Open	5mm	6200µl	40x40x11



# SIZE CHART



2500μl Quartz Flow Through Cuvette Both Ends Open

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8035-2	2500μl Quartz Flow Through Cuvette Both Ends Open	2.5mm	2500μl	50x30x10.5mm





# SIZE CHART

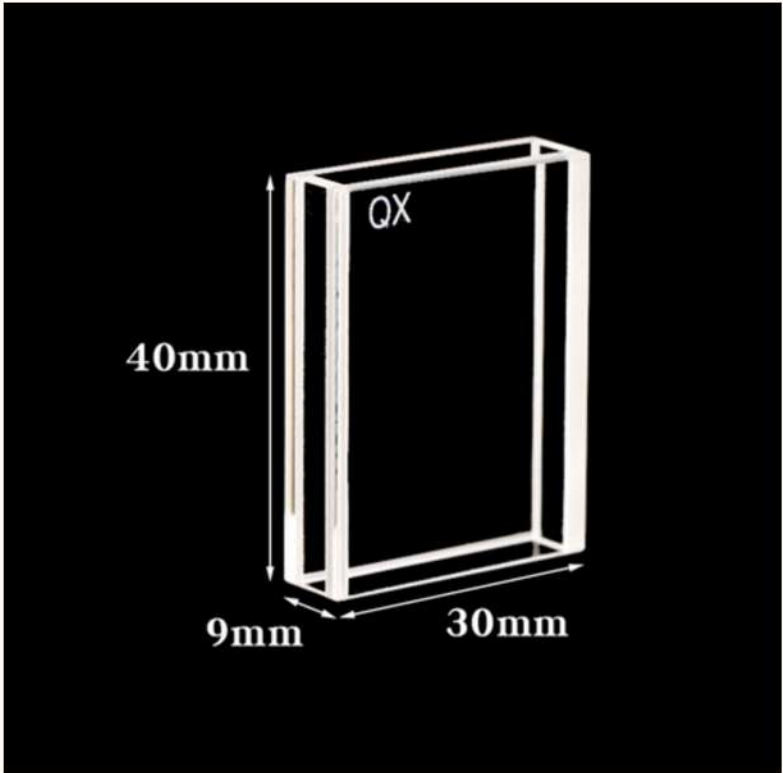


3000µl Quartz Flow Through Cuvette Both Ends Open

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8035-3	3000µl Quartz Flow Through Cuvette Both Ends Open	3mm	3000µl	55x26x9mm



# SIZE CHART

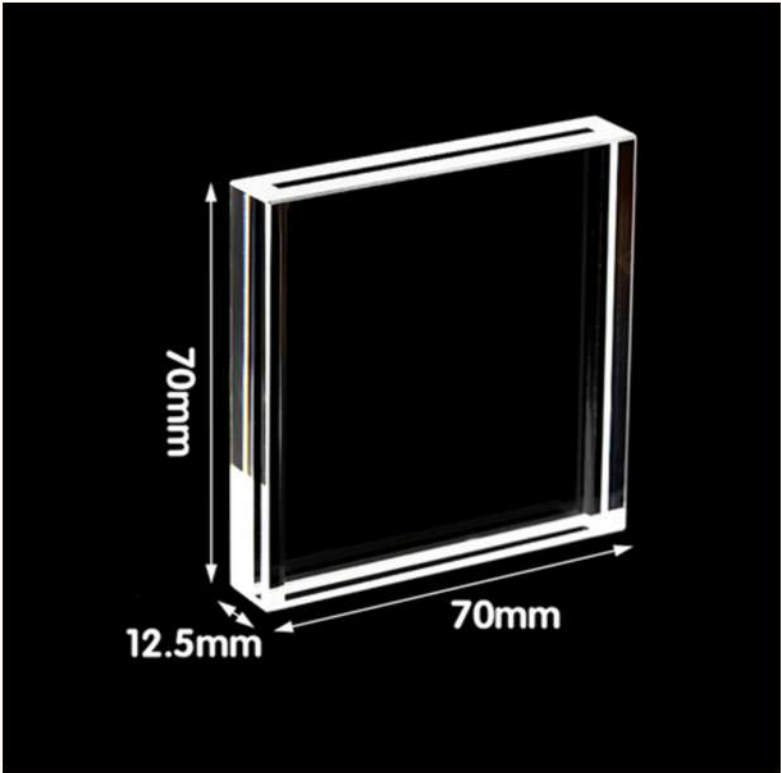


5000µl Quartz Flow Through Cuvette Both Ends Open

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8035-4	5000µl Quartz Flow Through Cuvette Both Ends Open	26/4mm	5000µl	40x30x9mm



# SIZE CHART



9700μl Quartz Flow Through Cuvette Both Ends Open

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8035-5	9700μl Quartz Flow Through Cuvette Both Ends Open	2.5mm	9700μl	70x70x12.5mm



# SIZE CHART



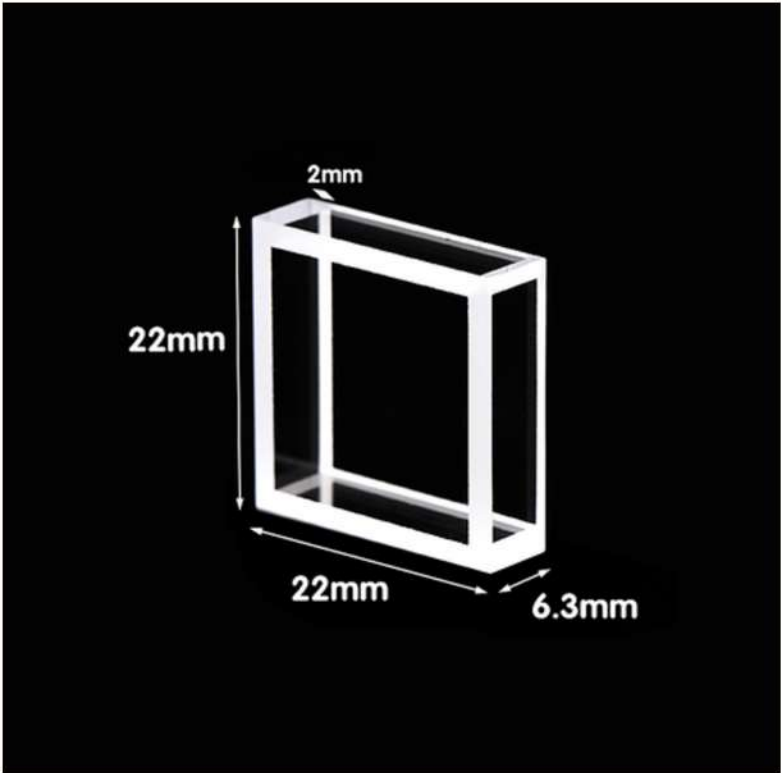
16000µl Quartz Flow Through Cuvette Both Ends Open

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8035-6	16000µl Quartz Flow Through Cuvette Both Ends Open	5mm	16000µl	80x44x9mm





# SIZE CHART



18000µl Quartz Flow Through Cuvette Both Ends Open

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8035-7	18000µl Quartz Flow Through Cuvette Both Ends Open	18mm	18000µl	22x22x6.3mm



# SIZE CHART



46000µl Quartz Flow Through Cuvette Both Ends Open

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8035-8	46000µl Quartz Flow Through Cuvette Both Ends Open	30mm	46000µl	111x17x33mm



## CUSTOM ENGINEERING SERVICES

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

- Path length adjustments tailored to analytical sensitivity
- Custom optical window designs for UV-Vis-NIR performance
- Volume and geometry variations to match laboratory and industrial needs
- Engineering support from drawings or samples for unique requirements



# 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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Website: [www.toquartz.com](http://www.toquartz.com)

TOQUARTZ® - Precision Quartz Solutions for Industry and Research

*For technical specifications, custom requirements, or pricing information, please contact our sales team.*