

TOQUARTZ Product Catalog

TOQUARTZ®

Quartz Flow Cell with Inlet and Outlet Tubing

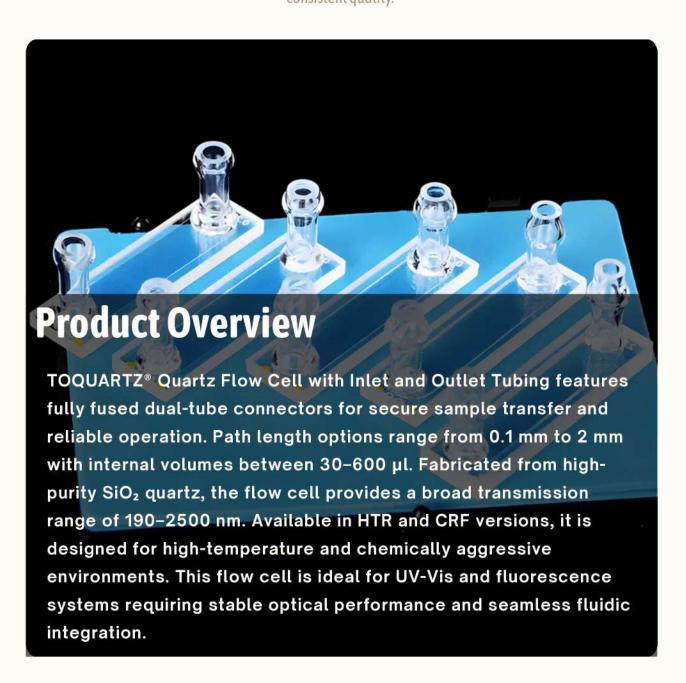
Integrated Engineering & Agile Production

for Demanded Specifications



TOQUARTZ® QUARTZ FLOW CELL WITH INLET AND OUTLET TUBING

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 with Inlet and Outlet Tubingwith fast delivery and consistent quality.



TOQUARTZ®



QUARTZ FLOW CELL WITH INLET AND OUTLET TUBING



Key Features

- Fused dual-tube connectors ensuring leakfree operation.
- UV-Vis transmission from 190–2500 nm without absorption peaks.
- High SiO₂ purity (99.98–99.995%) for chemical stability.
- Suitable for both laboratory and industrial continuous flow analysis.

TOQUARTZ® QUARTZ FLOW CELL WITH INLET AND OUTLET TUBING





TECHNICAL SPECIFICATIONS

Physical Properties

- Density: 2.2 g/cm³
- Thermal conductivity: 120–160 W/m·K
- Thermal expansion: ≤0.55×10⁻⁶/K
- Max service temperature: ≥1100 °C
- Softening point: ~1665 °C

Chemical Properties

- SiO₂ purity: 99.98–99.995%
- Resistant to acids, bases, and molten salts
- Stable against fluorinated gases
- Non-reactive with water vapor
- Corrosion-proof fused quartz body

Optical Properties

- Transmission range: 190–2500 nm
- Absorbance deviation: ≤0.3%
- Refractive index: 1.46 at 589 nm
- Optical homogeneity: >99%
- Consistent UV-Vis and fluorescence performance

Mechanical Properties

- Fracture strength: ≥350 MPa
- Elastic modulus: 72 GPa
- Poisson's ratio: 0.17
- Hardness: 570 KHN
- Wear resistance under high flow conditions



150µl Quartz Flow Cell with Inlet and Outlet Tubing

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8017	150µl Quartz Flow Cell with Inlet and Outlet Tubing	0.5mm	150µl	12.5*3*45mm



30µl Quartz Flow Cell with Inlet and Outlet Tubing

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8017-1	30µl Quartz Flow Cell with Inlet and Outlet Tubing	0.1mm	30µl	12.5*2.6*45m m



60µl Quartz Flow Cell with Inlet and Outlet Tubing

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8017-2	60µl Quartz Flow Cell with Inlet and Outlet Tubing	0.2mm	60µl	12.5*2.7*45m m



90µl Quartz Flow Cell with Inlet and Outlet Tubing

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8017-3	90µl Quartz Flow Cell with Inlet and Outlet Tubing	0.3mm	90µl	12.5*2.8*45m m



300µl Quartz Flow Cell with Inlet and Outlet Tubing

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8017-4	300µl Quartz Flow Cell with Inlet and Outlet Tubing	1mm	300µl	12.5*3.5*45m m



600µl Quartz Flow Cell with Inlet and Outlet Tubing

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8017-5	600µl Quartz Flow Cell with Inlet and Outlet Tubing	2mm	600µl	12.5*4.5*45m m

Q CUSTOM ENGINEERING SERVICES

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

- Path length adjustment based on analytical requirements
- Connector design modifications for tubing compatibility
- Optical surface treatment for improved clarity
- Engineering support for drawing validation and design feasibility
- · Customer-specific prototypes for system integration

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.