



TOQUARTZ

Product Catalog

TOQUARTZ®

Black Wall Quartz Flow-Through Cell with M6 Connector

Integrated Engineering & Agile Production
for Demanded Specifications





TOQUARTZ® BLACK WALL QUARTZ FLOW-THROUGH CELL WITH M6 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® Black Wall Quartz Flow-Through Cell with M6 Connector with fast delivery and consistent quality.



Product Overview

The TOQUARTZ® Black Wall Quartz Flow-Through Cell with M6 Connector is engineered for precision and durability in demanding analytical applications. These high-performance flow cells combine superior optical properties with robust construction to deliver reliable results in spectroscopic analysis, chromatography, and process monitoring applications.



TOQUARTZ® BLACK WALL QUARTZ FLOW-THROUGH CELL WITH M6 CONNECTOR



Key Features

- Superior Optical Clarity: Manufactured from high-purity quartz, ensuring excellent UV transmission from 190 nm to 2500 nm
- Black Wall Design: Reduces stray light and improves signal-to-noise ratio
- M6 Threaded Connectors: Provides secure, leak-free connections with standard analytical instruments
- Customizable Dimensions: Available in various light path lengths and internal volumes
- Chemical Resistance: Compatible with most acids, bases, and organic solvents



TOQUARTZ® BLACK WALL QUARTZ FLOW-THROUGH CELL WITH M6 CONNECTOR



Applications

- UV-Vis Spectroscopy
- HPLC Detection
- Fluorescence Analysis
- Process Analytical Technology
- Environmental Monitoring
- Chemical Research
- Pharmaceutical Quality Control





TECHNICAL SPECIFICATIONS

Physical Properties

- **Material:** High-purity quartz (99.995%)
- **Standard Dimensions:** 12.5x12.5x35mm
- **Connector Type:** M6 threaded
- **Path Length Tolerance:** ± 0.1 mm
- **Surface Finish:** Optically polished

Optical Properties

- **Transmission Range:** 190-2500 nm
- **UV Cutoff:** ~ 170 nm
- **Refractive Index (589.3 nm):** ~ 1.46
- **Surface Quality:** 60-40 scratch-dig
- **Scatter Reduction:** Black wall design

Chemical Properties

- **Chemical Resistance:** Excellent to most chemicals
- **Acid Resistance:** High (except HF)
- **Solvent Compatibility:** Comprehensive
- **Water Absorption:** Negligible



SIZE CHART



32µl Laboratory Black Wall Quartz Flow-Through Cuvette with M6 Screw Connector

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8002	32µl Laboratory Black Wall Quartz Flow-Through Cuvette with M6 Screw Connector	10mm	32µl	12.5x12.5x35 mm



SIZE CHART



200µl Black Wall Quartz Flow-Through Cuvette with M6 Threaded Connector

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8006	200µl Black Wall Quartz Flow-Through Cuvette with M6 Threaded Connector	10mm	200µl	12.5x12.5x35 mm



SIZE CHART



60µl Black Wall Quartz Flow-Through Cuvette with M6 Threaded Connector

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8036	60µl Black Wall Quartz Flow-Through Cuvette with M6 Threaded Connector	1mm	60µl	12.5x12.5x35 mm



SIZE CHART



100µl Black Wall Quartz Flow-Through Cuvette with M6 Connector, Optical Center Height 15mm

Model	Description	Path Length	Volume	Window Size
AT-BSM-8036-1	100µl Black Wall Quartz Flow-Through Cuvette with M6 Connector, Optical Center Height 15mm	3mm	100µl	3x12mm



SIZE CHART



120µl Black Wall Quartz Flow-Through Cuvette with M6 Connector

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8036-2	120µl Black Wall Quartz Flow-Through Cuvette with M6 Connector	2mm	120µl	12.5x12.5x35 mm



SIZE CHART



300µl Black Wall Quartz Flow-Through Cuvette with M6 Connector

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8036-3	300µl Black Wall Quartz Flow-Through Cuvette with M6 Connector	5mm	300µl	12.5x12.5x35 mm



SIZE CHART



380µl Black Wall Quartz Flow-Through Cuvette with M6 Connector, Optical Center Height 15mm

Model	Description	Path Length	Volume	Window Size
AT-BSM-8036-4	380µl Black Wall Quartz Flow-Through Cuvette with M6 Connector, Optical Center Height 15mm	10mm	380µl	3.5x11mm



SIZE CHART



440µl Black Wall Quartz Flow-Through Cuvette with M6 Connector, Optical Center Height 15mm

Model	Description	Path Length	Volume	Window Size
AT-BSM-8036-5	440µl Black Wall Quartz Flow-Through Cuvette with M6 Connector, Optical Center Height 15mm	10mm	440µl	4x11mm



SIZE CHART



600µl Black Wall Quartz Flow-Through Cuvette with M6 Connector

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8036-6	600µl Black Wall Quartz Flow-Through Cuvette with M6 Connector	10mm	600µl	12.5x12.5x35 mm



SIZE CHART



400µl Black Wall Quartz Flow-Through Cuvette with M6 Connector

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8037	400µl Black Wall Quartz Flow-Through Cuvette with M6 Connector	10mm	400µl	12.5x12.5x35 mm



SIZE CHART



800µl Black Wall Quartz Flow-Through Cuvette with M6 Connector

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8037-1	800µl Black Wall Quartz Flow-Through Cuvette with M6 Connector	10mm	800µl	12.5x12.5x35 mm



SIZE CHART



200µl Black Wall Quartz Flow-Through Cuvette with M6 Connector

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8037-2	200µl Black Wall Quartz Flow-Through Cuvette with M6 Connector	10mm	200µl	12.5x12.5x35 mm



SIZE CHART



32µl Black Wall Quartz Flow-Through Cuvette with M6 Connector

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8037-3	32µl Black Wall Quartz Flow-Through Cuvette with M6 Connector	10mm	32µl	12.5x12.5x35 mm



SIZE CHART



450µl Black Wall Quartz Flow-Through Cuvette with M6 Connector

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-8037-4	450µl Black Wall Quartz Flow-Through Cuvette with M6 Connector	10mm	450µl	12.5x12.5x35 mm



CUSTOM ENGINEERING SERVICES

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

- Custom path lengths
- Special window configurations
- Alternative connector types
- Enhanced pressure ratings
- Special material treatments



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