



# TOQUARTZ

## Product Catalog

# TOQUARTZ®

## Quartz Micro Cuvette with Black Walls and Black Cap

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





# TOQUARTZ® QUARTZ MICRO CUVETTE WITH BLACK WALLS AND BLACK CAP

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 Micro Cuvette with Black Walls and Black Cap with fast delivery and consistent quality.



## Product Overview

**TOQUARTZ® High-purity optical quartz micro cuvette ( $\geq 99.995\%$   $\text{SiO}_2$ ) with black walls for ultra-precise spectrophotometric and fluorescence analysis. Designed for minimal sample volumes (50 $\mu\text{l}$ -300 $\mu\text{l}$ ) with excellent UV-Vis transmission range (200nm-2500nm). Black walls minimize stray light for enhanced sensitivity in fluorescence detection.**



# TOQUARTZ® QUARTZ MICRO CUVETTE WITH BLACK WALLS AND BLACK CAP



## Key Features

- Superior Optical Performance: High-purity quartz with excellent transmission range
- Optimized for Fluorescence: Black walls minimize light scattering and cross-talk
- Micro Volume Capability: Available in 50µl, 100µl, 200µl, and 300µl capacities
- Precision Dimensions: Manufactured to tight tolerances ( $\pm 0.1\text{mm}$ )
- Chemical Resistance: Excellent resistance to acids, bases, and organic solvents
- Thermal Stability: Temperature resistant up to 100°C



# TOQUARTZ® QUARTZ MICRO CUVETTE WITH BLACK WALLS AND BLACK CAP



## Applications

- **Life Science Research:** DNA/RNA quantification, protein analysis
- **Analytical Chemistry:** Trace analysis, environmental testing
- **Pharmaceutical R&D:** Drug formulation analysis, API quantification
- **Academic Research:** Fluorescence studies, biochemistry experiments
- **Clinical Diagnostics:** Low-volume sample analysis



# TECHNICAL SPECIFICATIONS

## Physical Properties

- Material: High-purity quartz ( $\geq 99.995\%$   $\text{SiO}_2$ )
- Dimensional Tolerance:  $\pm 0.1\text{mm}$
- Surface Finish: Optical polishing on window surfaces
- Wall Treatment: Black coating for light isolation

## Optical Properties

- Transmission Range: 200nm-2500nm
- Absorbance Accuracy:  $\pm 0.005A$
- Window Flatness:  $\leq \lambda/4$
- Stray Light Reduction:  $> 99\%$  (black walls)

## Chemical Properties

- Chemical Resistance: Excellent to most acids, bases, and solvents
- pH Range: 1-14
- Hydrophobicity: Moderate
- Solvent Compatibility: Compatible with most organic solvents



# SIZE CHART



50µl Quartz Micro Cuvette with Black Walls and Black Cap

Model	Description	Wavelength	PathLength	Volume	Thermal Stability	Outline Dimension
AT-BSM-4028	50µl Quartz Micro Cuvette with Black Walls and Black Cap	200nm-2500nm	10mm	50µl	100°C	12.5x12.5x45mm



# SIZE CHART



50µl Quartz Micro Cuvette with Black Walls and Black Lid

Model	Description	Wavelength	PathLength	Volume	Thermal Stability	Outline Dimension
AT-BSM-4022	50µl Quartz Micro Cuvette with Black Walls and Black Lid	200nm-2500nm	10mm	50µl	100°C	12.5x12.5x45mm



# SIZE CHART



100µl Quartz Micro Cuvette with Black Walls and Black Cap

Model	Description	Wavelength	PathLength	Volume	Thermal Stability	Outline Dimension
AT-BSM-4023	100µl Quartz Micro Cuvette with Black Walls and Black Cap	200nm-2500nm	10mm	100µl	100°C	12.5x12.5x45mm





# SIZE CHART



200 µlQuartz Micro Cuvette with Black Walls and Black Cap

Model	Description	Wavelength	PathLength	Volume	Thermal Stability	Outline Dimension
AT-BSM-4025	200 µlQuartz Micro Cuvette with Black Walls and Black Cap	200nm-2500nm	10mm	200µl	100°C	12.5x12.5x45mm



# SIZE CHART



300  $\mu$ l Quartz Micro Cuvette with Black Walls and Black Cap

Model	Description	Wavelength	PathLength	Volume	Thermal Stability	Outline Dimension
AT-BSM-4024	300 $\mu$ l Quartz Micro Cuvette with Black Walls and Black Cap	200nm-2500nm	10mm	300 $\mu$ l	100°C	12.5x12.5x45mm



## CUSTOM ENGINEERING SERVICES

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

- Non-standard path lengths
- Specialized volumes
- Custom dimensions and chamber geometries
- Special cap designs and surface 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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TOQUARTZ® - Precision Quartz Solutions for Industry and Research

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