

TOQUARTZ Product Catalog

TOQUARTZ® Quartz Micro Cuvettes with Black Walls

Integrated Engineering & Agile Production

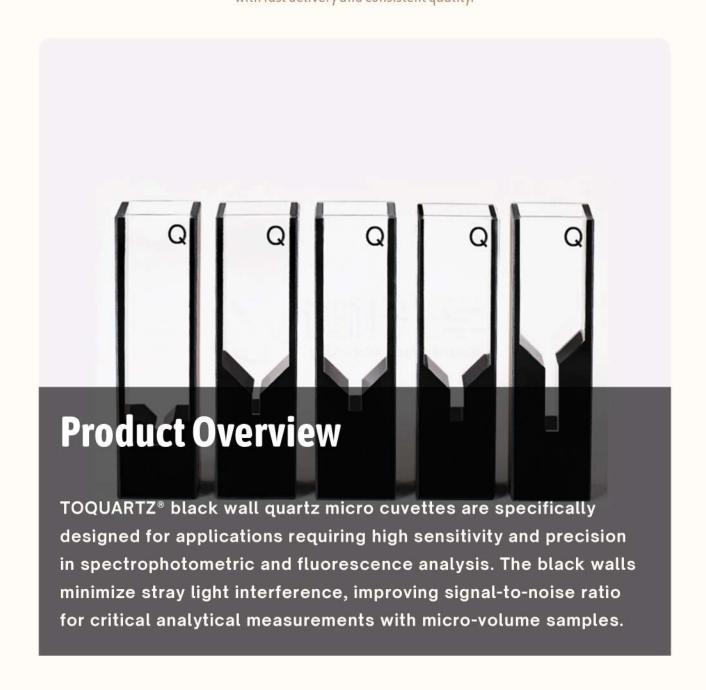
for Demanded Specifications



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☐ TOQUARTZ® QUARTZ MICRO CUVETTES WITH BLACK WALLS

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 Cuvettes with Black Walls with fast delivery and consistent quality.



○ TOQUARTZ® QUARTZ MICRO CUVETTES WITH BLACK WALLS



Key Features

- High-purity synthetic quartz with ≥99.98%
 SiO₂ content
- Excellent chemical resistance to acids, bases, and organic solvents
- High thermal stability up to 100°C for routine laboratory use
- Black walls reduce stray light and minimize background interference
- Polished optical surfaces for minimal light scattering and accurate readings

○ TOQUARTZ® QUARTZ MICRO CUVETTES WITH BLACK WALLS





TECHNICAL SPECIFICATIONS

Physical Properties

Material: High-purity synthetic quartz (≥99.98% SiO₂)

Tensile Strength: 50 MPa

Density: 2.2 g/cm³

Thermal Expansion Coefficient: 5.5×10⁻⁻ /°C

Surface Finish: Polished optical faces

Wall Treatment: Black, opaque walls

Chemical Properties

Acid Resistance: Excellent (except HF)

· Alkali Resistance: Good up to pH 12

· Solvent Compatibility: Compatible with most organic solvents

Water Absorption: <0.01%

Outgassing: Minimal

Biocompatibility: Inert, non-reactive with biological samples

Optical Properties

Transmission Range: 200-2500nm

UV Cutoff: <190nm

Refractive Index: 1.46 at 589.3nm

Dispersion: Abbe Value = 67.8

Optical Homogeneity: ≤5×10⁻⁶

Stray Light Reduction: >99% with black walls



20μl-200μl Quartz Micro Cuvette with Black Walls

Model	Description	Wavelength	PathLen gth	Volume	Thermal Stability	Outline Dimension
AT-BSM- 4021	20µl-200µl Quartz Micro Cuvette with Black Walls	200nm- 2500nm	10mm	20µl- 200µl	100°C	12.5x12.5x 45mm



50μl Quartz Micro Cuvette with Black Walls

Model	Description	Wavelength	PathLen gth	Volume	Thermal Stability	Outline Dimension
AT-BSM- 4010-1	50µl Quartz Micro Cuvette with Black Walls	200nm- 2500nm	10mm	50µl	100°C	12.5x12.5x 45mm



 $50\mu l/100\mu l$ Quartz Micro Cuvette with Black Walls

Model	Description	Wavelength	PathLen gth	Volume	Thermal Stability	Outline Dimension
AT-BSM- 4041	50µl/100µl Quartz Micro Cuvette with Black Walls	200nm- 2500nm	10mm	50µl/10 0µl	100°C	12.5x12.5x 45mm



106µl Quartz Micro Cuvette with Black Walls

Model	Description	Wavelength	PathLen gth	Volume	Thermal Stability	Outline Dimension
AT-BSM- 4040	106µl Quartz Micro Cuvette with Black Walls	200nm- 2500nm	10mm	106µl	100°C	12.5x12.5x 8mm



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

- Dimensional Customization: Custom internal volumes, modified external dimensions, custom path lengths
- Surface & Optical Modifications: Special coatings, antireflection treatments, custom optical window orientations
- Functional Enhancements: Integration of filling ports, addition of stoppers or caps, flow-through designs

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.