

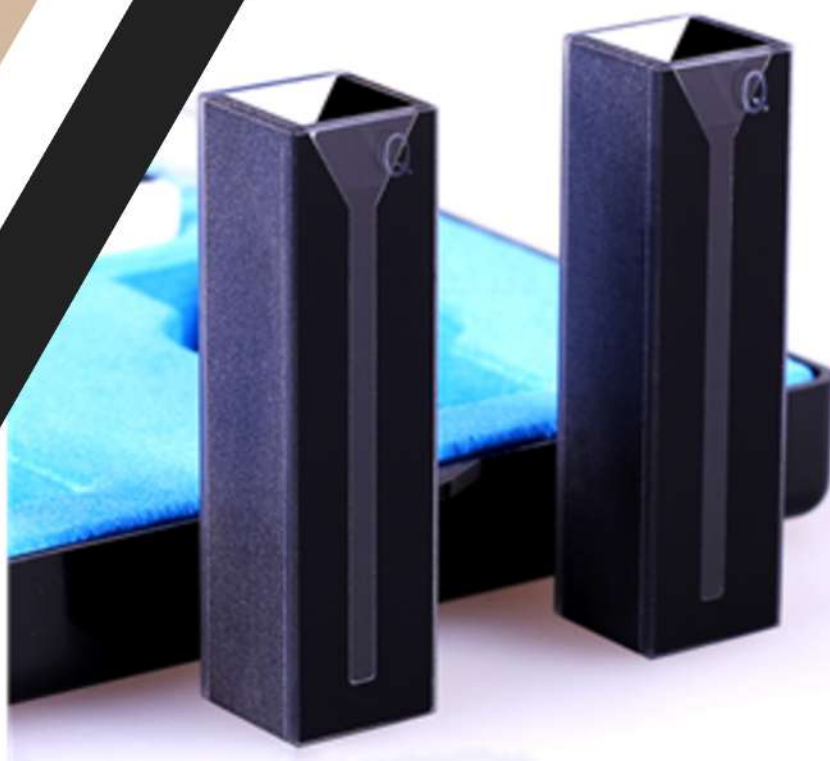


TOQUARTZ

Product Catalog

TOQUARTZ® Slanted Top Quartz Cuvette with Black Walls

Integrated Engineering & Agile Production
for Demanded Specifications





TOQUARTZ® SLANTED TOP QUARTZ CUVETTE 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® Slanted Top Quartz Cuvette with Black Walls with fast delivery and consistent quality.



Product Overview

TOQUARTZ® precision-engineered slanted top quartz cuvettes with black walls are designed for UV-Vis and fluorescence spectroscopy applications. The black walls minimize stray light and background interference, while the slanted top design facilitates easy sample loading for micro-volume analysis. Made from high-purity quartz ($\geq 99.98\%$ SiO₂) with excellent optical transmission from 200nm to 2500nm wavelength range.



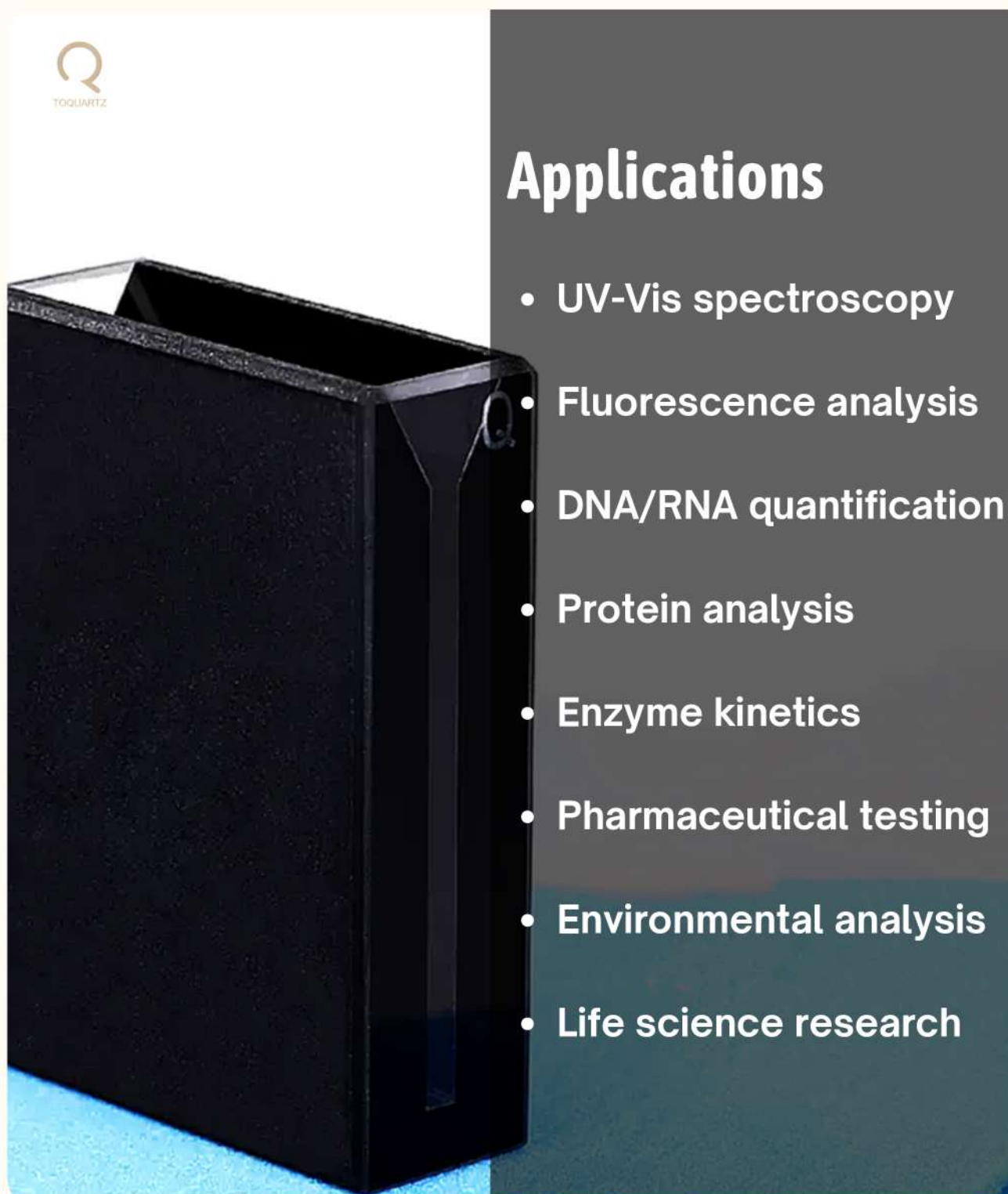
TOQUARTZ® SLANTED TOP QUARTZ CUVETTE WITH BLACK WALLS



Key Features

- High-purity quartz ($\geq 99.98\%$ SiO₂)
- Black walls to minimize stray light interference
- Slanted top for easy sample loading
- Excellent transmission range (200-2500nm)
- Chemical resistance to most acids, bases, and solvents
- Thermal stability up to 100°C

TOQUARTZ® SLANTED TOP QUARTZ CUVETTE WITH BLACK WALLS





TECHNICAL SPECIFICATIONS

Physical Properties

- **Material:** High-purity quartz ($\geq 99.98\%$ SiO_2)
- **Dimension Tolerance:** $\pm 0.1\text{mm}$
- **Surface Finish:** Polished optical windows
- **Black Wall Coating:** Chemically stable, non-fluorescent
- **Thermal Expansion:** $5.5 \times 10^{-7} / ^\circ\text{C}$
- **Density:** 2.2 g/cm^3

Chemical Properties

- **Chemical Resistance:** Stable against most acids, bases, and organic solvents
- **pH Stability Range:** 1-14
- **Solvent Compatibility:** Compatible with aqueous and organic solvents
- **Surface Adsorption:** Minimal protein/nucleic acid binding
- **Hydrophobicity:** Moderate (contact angle $\sim 30^\circ$)

Optical Properties

- **Transmission Range:** 200-2500nm
- **Transmission Efficiency:** $> 80\%$ (UV-Vis range)
- **Refractive Index:** 1.46 at 589nm
- **Fluorescence:** Negligible intrinsic fluorescence
- **Path Length Accuracy:** $\pm 0.01\text{mm}$
- **Black Wall Light Absorption:** $> 99\%$



SIZE CHART



350µl Slanted Top Quartz Cuvette with Black Walls

Model	Description	Wavelength	PathLength	Volume	Thermal Stability	Outline Dimension
AT-BSM-4003-1	350µl Slanted Top Quartz Cuvette with Black Walls	200nm-2500nm	10mm	350µl	100°C	12.5x12.5x45mm



SIZE CHART



700µl Slanted Top Quartz Cuvette with Black Walls

Model	Description	Wavelength	PathLength	Volume	Thermal Stability	Outline Dimension
AT-BSM-4003	700µl Slanted Top Quartz Cuvette with Black Walls	350nm-2000nm	10mm	700µl	100°C	12.5x12.5x45mm



SIZE CHART



1050µl Slanted Top Quartz Cuvette with Black Walls

Model	Description	Wavelength	PathLength	Volume	Thermal Stability	Outline Dimension
AT-BSM-4003-4	1050µl Slanted Top Quartz Cuvette with Black Walls	200nm-2500nm	10mm	1050µl	100°C	12.5x12.5x45mm



SIZE CHART



1400µl Slanted Top Quartz Cuvette with Black Walls

Model	Description	Wavelength	PathLength	Volume	Thermal Stability	Outline Dimension
AT-BSM-4003-2	1400µl Slanted Top Quartz Cuvette with Black Walls	200nm-2500nm	10mm	1400µl	100°C	12.5x12.5x45mm



SIZE CHART



1750µl Slanted Top Quartz Cuvette with Black Walls

Model	Description	Wavelength	PathLength	Volume	Thermal Stability	Outline Dimension
AT-BSM-4003-3	1750µl Slanted Top Quartz Cuvette with Black Walls	200nm-2500nm	10mm	1750µl	100°C	12.5x12.5x45mm



SIZE CHART



2100µl Slanted Top Quartz Cuvette with Black Walls

Model	Description	Wavelength	PathLength	Volume	Thermal Stability	Outline Dimension
AT-BSM-4033-1	2100µl Slanted Top Quartz Cuvette with Black Walls	200nm-2500nm	30mm	2100µl	100°C	12.5*32.5*45mm



CUSTOM ENGINEERING SERVICES

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

- Custom dimensions and volumes
- Special path lengths
- Modified opening angles
- Specialized coatings
- Flow-through adaptations
- Integration features



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.