

TOQUARTZ Product Catalog

TOQUARTZ® Reflective Quartz UV Cuvette

Integrated Engineering & Agile Production

for Demanded Specifications



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TOQUARTZ® REFLECTIVE QUARTZ UV CUVETTE

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® Reflective Quartz UV Cuvette with fast delivery and consistent quality.





TOQUARTZ® REFLECTIVE QUARTZ UV CUVETTE

Key Features

- Material Purity: ≥99.98% SiO₂ for minimal background interference
- Optical Transparency: Excellent transmission in 200-2500 nm range
- Precision Surfaces: Optical-grade flatness and parallelism
- Thermal Stability: Withstands temperatures up to 1100°C
- Chemical Resistance: Exceptional stability against acids, bases, and chemicals
- Customizable Designs: Available with various reflective properties and dimensions
- Dimensional Precision: Manufactured to tight tolerances (±0.1mm standard)



TOQUARTZ® REFLECTIVE QUARTZ UV CUVETTE

Applications

- Material Science Research: Analyze surface properties and reflectance characteristics of powders, films, and solid materials
- Fluorescence Detection: Enhanced signal collection for sensitive fluorescence measurements
- OEM Spectroscopy Equipment: Critical component integration in analytical instruments
- Quality Control: Material verification and analysis in production environments
- Chemical Analysis: Surface characterization and compositional analysis



TECHNICAL SPECIFICATIONS

Physical Properties

Material: High-purity fused quartz

Density: 2.20 g/cm³

Thermal Expansion: 5.5 × 10⁻⁷/K

Maximum Operating Temperature: 1100°C

Thermal Conductivity: 1.3 W/m·K

Young's Modulus: 72 GPa

Knoop Hardness: 500-600 kg/mm²

Chemical Properties

• SiO₂ Content: ≥99.995%

Chemical Resistance: Excellent to acids, bases, and salt solutions

Water Absorption: <0.01%

• OH Content: <20 ppm

• Metal Impurities: <5 ppm

Gas Impermeability: Excellent

Optical Properties

Transmission Range: 200-2500 nm

Refractive Index (at 589.3 nm): 1.4585

· Reflective Surface Options: Polished, Frosted, Black-walled, Metal-coated

Surface Quality: 60-40 scratch-dig

Flatness: λ/4 at 632.8 nm

Parallelism: ≤30 arc seconds



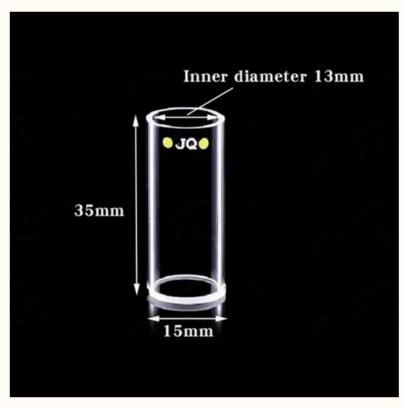
250µl Reflective Quartz UV Cuvette

Model	Description	Wavelength	Volume	Wall Thicknes s	Thermostabilit y	OD.xHeight
AT-BSM- 054	250µl Reflective Quartz UV Cuvette	200nm- 2500nm	250µl	1mm	600°C	φ7x15mm



3ml Reflective Quartz UV Cuvette

Model	Description	Wavelength	Volume	Wall Thicknes s	Thermostabilit y	OD.xHeight
AT-BSM- 055-1	3ml Reflective Quartz UV Cuvette	200nm- 2500nm	3ml	2mm	600°C	φ15x35mm



4.5ml Reflective Quartz UV Cuvette

Model	Description	Wavelength	Volume	Wall Thicknes s	Thermostabilit y	OD.xHeight
AT-BSM- 055	4.5ml Reflective Quartz UV Cuvette	200nm- 2500nm	4.5ml	1mm	600°C	φ15x35mm



14ml Reflective Quartz UV Cuvette

Model	Description	Wavelength	Volume	Wall Thicknes s	Thermostabilit y	OD.xHeight
AT-BSM- 055-4	14ml Reflective Quartz UV Cuvette	200nm- 2500nm	14ml	2mm	600°C	φ30*30mm



14.5ml Reflective Quartz UV Cuvette

Model	Description	Wavelength	Volume	Wall Thicknes s	Thermostabilit y	OD.xHeight
AT-BSM- 034	14.5ml Reflective Quartz UV Cuvette	200nm- 2500nm	14.5ml	1.5mm	600°C	φ16x100mm



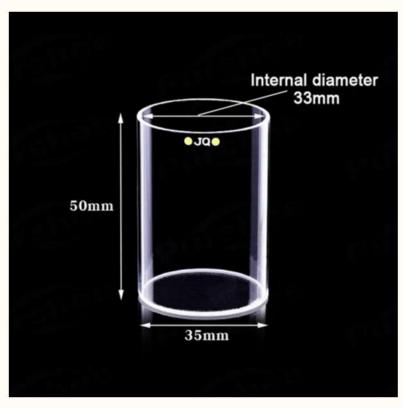
16ml Reflective Quartz UV Cuvette

Model	Description	Wavelength	Volume	Wall Thicknes s	Thermostabilit y	OD.xHeight
AT-BSM- 051	16ml Reflective Quartz UV Cuvette	200nm- 2500nm	16ml	2mm	600°C	φ29x38mm



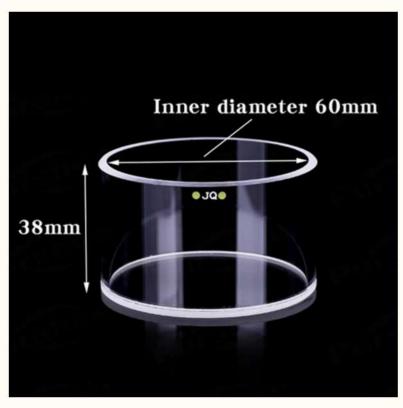
20ml Reflective Quartz UV Cuvette

Model	Description	Wavelength	Volume	Wall Thicknes s	Thermostabilit y	OD.xHeight
AT-BSM- 048	20ml Reflective Quartz UV Cuvette	200nm- 2500nm	20ml	2mm	600°C	φ44x20mm



40ml Reflective Quartz UV Cuvette

Model	Description	Wavelength	Volume	Wall Thicknes s	Thermostabilit y	OD.xHeight
AT-BSM- 046	40ml Reflective Quartz UV Cuvette	200nm- 2500nm	40ml	1mm	600°C	φ35x50mm



85ml Reflective Quartz UV Cuvette

Model	Description	Wavelength	Volume	Wall Thicknes s	Thermostabilit y	OD.xHeight
AT-BSM- 041	85ml Reflective Quartz UV Cuvette	200nm- 2500nm	85ml	2mm	600°C	φ64x38mm



CUSTOMIZATION OPTIONS

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

- Dimensions: Custom optical window sizes
- Reflective Surfaces: Specialized coatings for enhanced reflectivity
- Chamber Configurations: Custom internal geometries for specialized sample types
- Optical Path Designs: Modified light paths for unique analytical requirements
- Wall Treatments: Black walls, frosted surfaces, or specialized optical treatments
- Integration Features: Mounting points, connection ports, or 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

Email: info@toquartz.com Website: www.toquartz.com

TOQUARTZ® - Precision Quartz Solutions for Industry and Research

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