

# TOQUARTZ Product Catalog

# TOQUARTZ® Quartz Cuvette with Two Optical Windows and PTFE Lid

Integrated Engineering & Agile Production

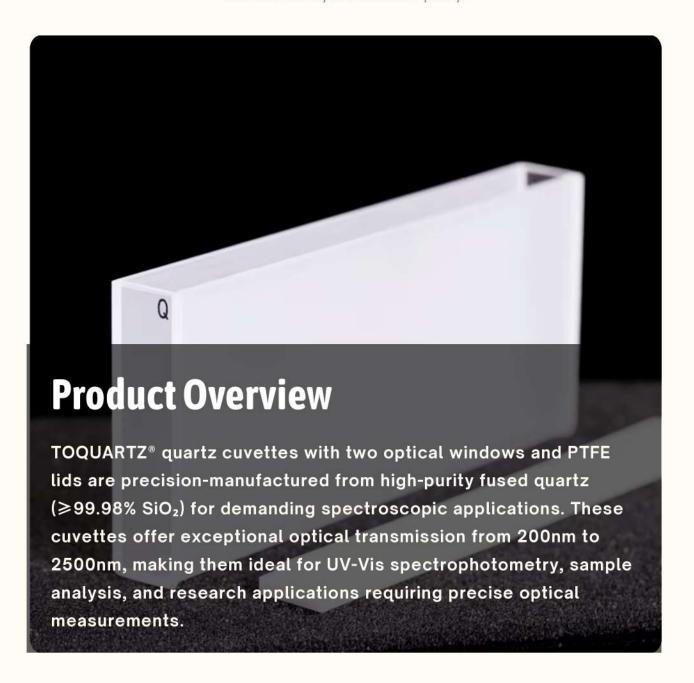
for Demanded Specifications

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## TOQUARTZ® QUARTZ CUVETTE WITH TWO OPTICAL WINDOWS AND PTFE LID

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 Cuvette with Two Optical Windows and PTFE Lid with fast delivery and consistent quality.





## TOQUARTZ® QUARTZ CUVETTE WITH TWO OPTICAL WINDOWS AND PTFE LID

## **Key Features**

- Superior Material: High-purity fused quartz with ≥99.995% SiO<sub>2</sub> content
- Optical Excellence: Wide spectral transparency (200-2500nm) with >80% transmittance
- Precision Manufacturing: Two polished optical windows with exacting dimensional tolerances
- Secure Sealing: PTFE lid prevents contamination and sample evaporation
- Thermal Stability: Operating temperature up to 1100°C (without PTFE lid)
- Chemical Resistance: Excellent resistance to acids, bases, and solvents
- Multiple Configurations: Available in various path lengths from 20mm to 100mm

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## TOQUARTZ® QUARTZ CUVETTE WITH TWO OPTICAL WINDOWS AND PTFE LID

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#### **Applications**

- Pharmaceutical Analysis: Drug formulation, quality control, stability testing
- Academic Research: Material science, biochemistry, physical chemistry
- Environmental Testing: Water quality analysis, pollutant detection
- Clinical Diagnostics: Medical sample analysis, biological assays
- Food & Beverage: Quality control, compositional analysis
- Industrial QC: Process monitoring, product verification



### TECHNICAL SPECIFICATIONS

#### **Physical Properties**

Density: 2.20 g/cm³

Fracture Modulus: ≥350 MPa

Thermal Expansion: 5.5×10<sup>-7</sup> /°C

Thermal Conductivity: 1.4 W/m·K

Max Operating Temperature: 1100°C

#### Chemical Properties

SiO<sub>2</sub> Purity: ≥99.995%

· Acid Resistance: Excellent (except HF)

· Alkali Resistance: Good up to pH 12

Solvent Resistance: Excellent

Water Absorption: Nil

#### **Optical Properties**

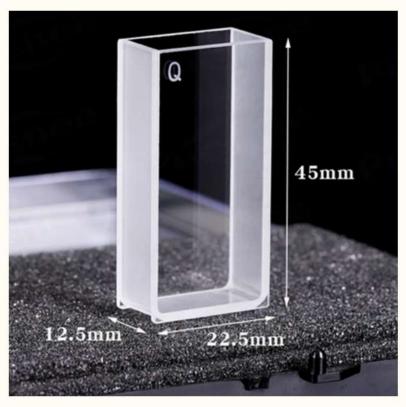
Transmittance: >80% (200-2500nm)

· Refractive Index: 1.46 at 589.3nm

· Surface Quality: Polished optical windows

UV Cutoff: ~180-190nm

Optical Windows: Two sides polished



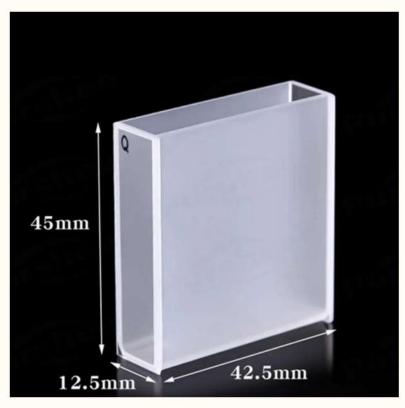
7ml Quartz Cuvette Cell with 2 Optical Windows and Lid

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM- 052	7ml Quartz Cuvette Cell with 2 Optical Windows and Lid	200nm- 2500nm	20mm	7ml	>80% (Paired Testing)	12.5x22.5x4 5 mm



10.5ml Quartz Cuvette Cell with 2 Optical Windows and Lid

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM- 073	10.5ml Quartz Cuvette Cell with 2 Optical Windows and Lid	200nm- 2500nm	30mm	10.5ml	>80% (Paired Testing)	12.5*32.5*45 mm



14ml Fused Quartz Macro Cuvette

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM- 072	14ml Quartz Cuvette Cell with 2 Optical Windows and Lid	200nm- 2500nm	40mm	14ml	>80% (Paired Testing)	12.5x42.5x4 5 mm



17.5ml Quartz Cuvette Cell with 2 Optical Windows and Lid

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM- 004	17.5ml Quartz Cuvette Cell with 2 Optical Windows and Lid	200nm- 2500nm	50mm	17.5ml	>80% (Paired Testing)	12.5x42.5x4 5 mm



17.5ml Quartz Cuvette Cell with 2 Optical Windows and Lid

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM- 008	17.5ml Quartz Cuvette Cell with 2 Optical Windows and Lid	200nm- 2500nm	50mm	17.5ml	>80% (Paired Testing)	12.5x52.5x4 5 mm



35ml Quartz Cuvette Cell with 2 Optical Windows and Lid

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM- 006	35ml Quartz Cuvette Cell with 2 Optical Windows and Lid	200nm- 2500nm	100mm	35ml	>80% (Paired Testing)	12.5x102.5x4 5 mm



#### **CUSTOMIZATION OPTIONS**

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

- Custom path lengths
- Non-standard dimensions to fit specific instruments
- Alternative lid materials (PE, glass, quartz)
- Graduated markings and custom identification



#### CARE AND MAINTENANCE

#### For maximum performance and longevity:

- · Clean immediately after use
- Handle by non-optical sides only
- Use appropriate solvents for cleaning
- Avoid hydrofluoric acid (HF)
- Store in dust-free environment
- Inspect regularly for scratches or damage

## **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.