

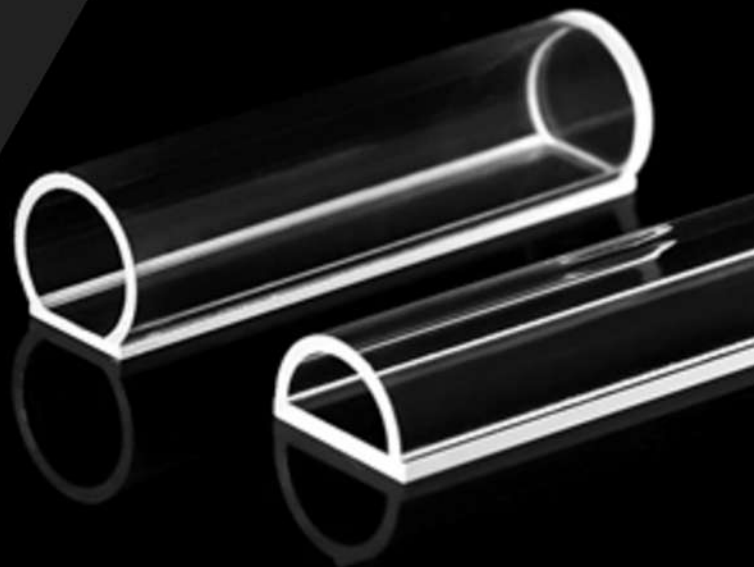


TOQUARTZ

Product Catalog

TOQUARTZ® Half-round Bottom Reflective Quartz Cuvette

Integrated Engineering & Agile Production
for Demanded Specifications





TOQUARTZ® HALF-ROUND BOTTOM REFLECTIVE QUARTZ 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® Half-round Bottom Reflective Quartz Cuvette with fast delivery and consistent quality.



Product Overview

TOQUARTZ® Reflective Quartz Cuvette features a half-round bottom and flat optical window design specifically engineered for reflectance spectroscopy applications. Manufactured from high-purity fused quartz ($\geq 99.995\% \text{ SiO}_2$), it provides exceptional optical clarity across the 200-2500nm wavelength range with no absorption peaks. This specialized cuvette is ideal for analyzing solid and powder samples that cannot be measured using traditional transmission methods.



TOQUARTZ® HALF-ROUND BOTTOM REFLECTIVE QUARTZ CUVETTE



Key Features

- Superior Optical Performance: Excellent transparency from UV (200nm) to NIR (2500nm)
- Precision Engineered: Half-round bottom geometry optimized for reflectance measurements
- High Chemical Resistance: Inert to most acids, bases, and solvents
- Thermal Stability: Maintains integrity up to 1100°C
- Manufacturing Precision: Tight tolerances ($\pm 0.1\text{mm}$) for instrument compatibility
- Custom Options Available: Dimensions, wall thickness, and surface treatments



TOQUARTZ® HALF-ROUND BOTTOM REFLECTIVE QUARTZ CUVETTE



Applications

- Material science and solid-state research
- Pharmaceutical powder analysis
- Pigment and colorant evaluation
- Ceramic and glass material testing
- Soil and environmental sample analysis
- Polymer and composite material characterization





TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	AT-BSM-055-3
Material	High-purity fused quartz ($\geq 99.995\% \text{ SiO}_2$)
Optical Transparency	200nm - 2500nm
Outer Diameter	12mm
Length	45mm
Wall Thickness	1mm
Dimensional Tolerance	$\pm 0.1\text{mm}$
Surface Flatness	$< \lambda/4$
Thermal Expansion	$5.5 \times 10^{-7} / ^\circ\text{C}$
Temperature Resistance	Up to 1100°C
Surface Treatment	Optical polishing



SIZE CHART



Customizable Half-round Bottom Reflective Quartz UV Cuvette

Model	Description	Wave length	Outer Dia.	Length	Wall Thickness	Material
AT-BSM-055-3	Customizable Half-round Bottom Reflective Quartz UV Cuvette	200nm-2500nm	12mm	45mm	1mm	Japanese quartz glass



CUSTOMIZATION OPTIONS

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

- Custom dimensions to fit specific instruments
- Special optical window configurations
- Variable wall thickness
- Enhanced surface treatments
- Application-specific 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.