

TOQUARTZ Tech Specifications

TOQUARTZ®
Standard Quartz Glass
UV Cuvette
Round Bottom with Lid
Product Catalog

Integrated Engineering & Agile Production

for Demanded Specifications

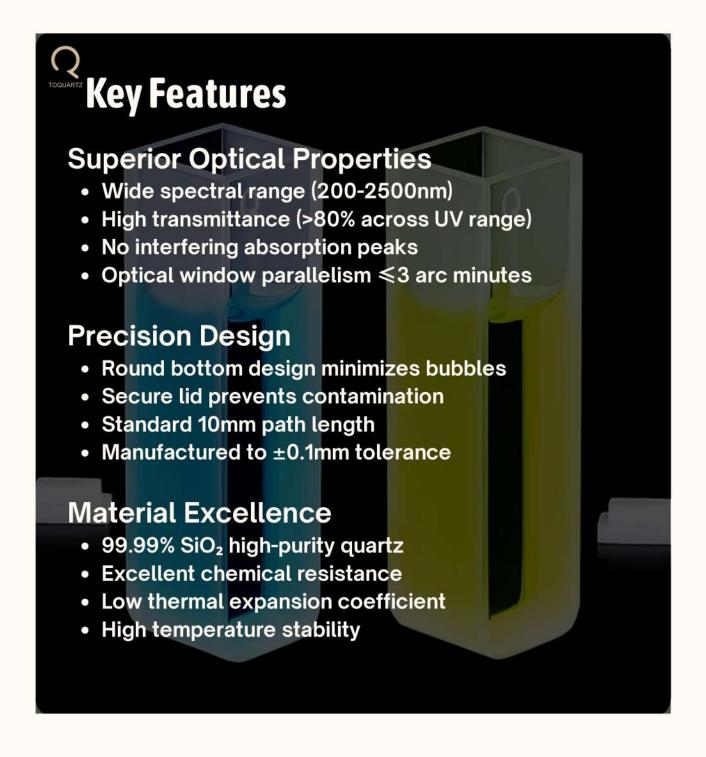


TOQUARTZ® STANDARD QUARTZ GLASS UV CUVETTE ROUND BOTTOM WITH LID

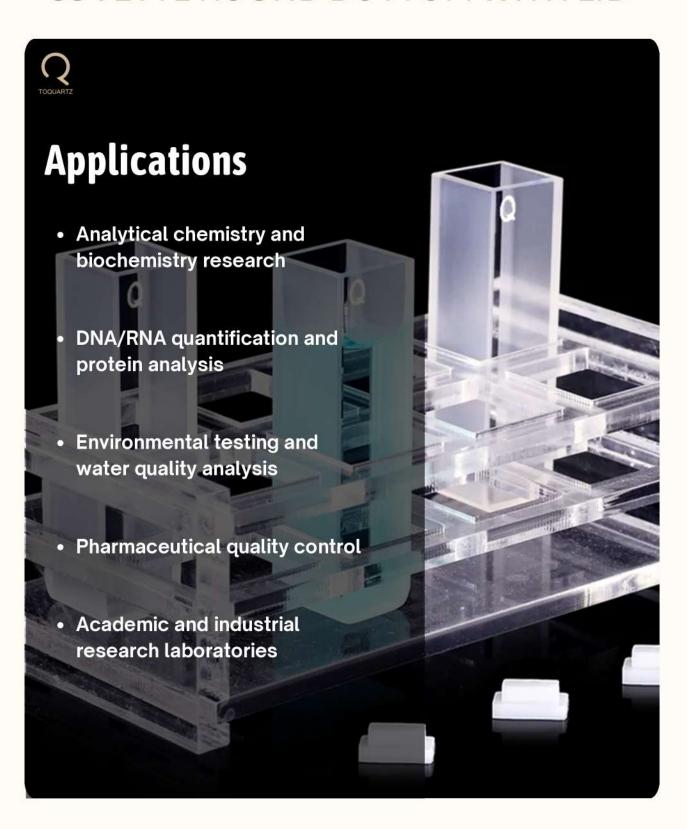
TOQUARTZ® is a specialized manufacturer of high-purity quartz products based in China, serving global B2B clients in laboratory instrumentation, biomedical research, and environmental monitoring. With in-house engineering support and flexible production capabilities, we offer both standard and custom TOQUARTZ® TOQUARTZ® Standard Quartz Glass UV Cuvette Round Bottom with Lid with fast delivery and consistent quality.



TOQUARTZ® STANDARD QUARTZ GLASS UV CUVETTE ROUND BOTTOM WITH LID



TOQUARTZ® STANDARD QUARTZ GLASS UV CUVETTE ROUND BOTTOM WITH LID





TECHNICAL SPECIFICATIONS

Category	Parameter	Specification / Value	Notes / Tolerance		
General	Model Number	AT-BSM-010 / AT-BSM- 019	Standard models with identical dimensions		
Material	Quartz Grade	Synthetic Fused Silica (≥99.99% SiO₂)	High-purity UV-grade quartz		
Optical	Wavelength Transmission Range	200 – 2500 nm	Verified by spectrophotometric testing		
	UV Transmittance	≥ 80% @ 200-350 nm	Paired testing, matched cuvettes		
	Absorption Peaks	None in 200-2500 nm range	No intrinsic absorption		
	Refractive Index (nD @ 589 nm)	1.4585	ASTM standard for fused silica		
	Surface Finish	Optical polish on windows	Ra < 10 nm		
	Light Path Accuracy	±0.1 mm	Ensures consistent absorbance readings		



TECHNICAL SPECIFICATIONS

Category	Parameter	Specification / Value	Notes / Tolerance	
Chemical	Acid Resistance	Excellent (except HF)	Stable in HCl, HNO₃, H₂SO₄, etc.	
	Alkali Resistance	Good (except hot concentrated NaOH/KOH)	Avoid prolonged exposure	
	Organic Solvent Compatibility	Excellent	Compatible with alcohols, ketones, DMSO	
	Hydrofluoric Acid Resistance	Not resistant	HF etches quartz	
	Solvent Absorption	None	Non-porous surface	
	Density	2.2 g/cm ³	ISO 7875-1	
	Thermal Expansion Coefficient	5.5 × 10 ⁻⁷ /K (20-300°C)	Very low, ideal for thermal stability	
	Softening Point	~1680°C	High thermal resistance	



TECHNICAL SPECIFICATIONS

Category	Parameter	Specification / Value	Notes / Tolerance	
Physical	Density	2.2 g/cm³	ISO 7875-1	
	Thermal Expansion Coefficient	5.5 × 10 ⁻⁷ /K (20-300°C)	Very low, ideal for thermal stability	
	Softening Point	~1680°C	High thermal resistance	
	Working Temperature (Max)	1100°C (continuous), 1200°C (short-term)	Not applicable for cuvette use	
	Thermal Shock Resistance	Excellent	Can withstand rapid temperature changes	
	Electrical Resistivity	10¹6 Ω·cm (at 20°C)	High dielectric strength	
	Surface Hardness	Mohs 5.5-6	Scratch-resistant	
	Softening Point	~1680°C	High thermal resistance	

SIZE CHART



Standard Quartz Glass Cuvette UV Corrosion Resistant Cell with Lid without Glue

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM- 010	Standard Quartz Glass Cuvette UV Corrosion Resistant Cell with Lid without Glue	200nm- 2500nm	10mm	3.5ml	>80% (Paired Testing)	12.5x12.5x45 mm

SIZE CHART



Standard Quartz Cuvette UV Sample Cell Round Bottom with Lid

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM- 019	Standard Quartz Cuvette UV Sample Cell Round Bottom with Lid	200nm- 2500nm	10mm	3.5ml	>80% (Paired Testing)	12.5x12.5x45 mm



CUSTOMIZATION OPTIONS

TOQUARTZ® offers specialized customization services to meet unique application requirements:

- Alternative path lengths
- Modified sample volumes
- Special lid configurations
- Flow-through adaptations
- Multi-window designs
- Black walls for fluorescence

QUALITY ASSURANCE

Each TOQUARTZ Standard Quartz UV 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.