



TOQUARTZ

Product Catalog

TOQUARTZ® Malvern Quartz UV Cuvette

Integrated Engineering & Agile Production
for Demanded Specifications





TOQUARTZ® MALVERN 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® TOQUARTZ® Malvern Quartz UV Cuvette with fast delivery and consistent quality.



Product Overview

TOQUARTZ® Transparent Malvern Quartz UV Cuvette is a high-precision optical cell designed for accurate spectroscopic analysis across UV and visible light ranges. Manufactured from 99.995% pure synthetic fused silica, this cuvette provides excellent transmittance from 190nm to 2500nm, making it ideal for demanding laboratory applications.



TOQUARTZ® MALVERN QUARTZ UV CUVETTE



Key Features

- **High Material Purity:** 99.98% SiO₂ for excellent optical clarity
- **Superior Optical Transmittance:** >80% across specified wavelength range
- **Precision Dimensions:** Manufactured to $\pm 0.1\text{mm}$ tolerance
- **Chemical Resistance:** Highly resistant to acids, bases, and organic solvents
- **Thermal Stability:** Excellent temperature resistance up to 1100°C
- **Consistent Batch Quality:** Rigorous quality control testing

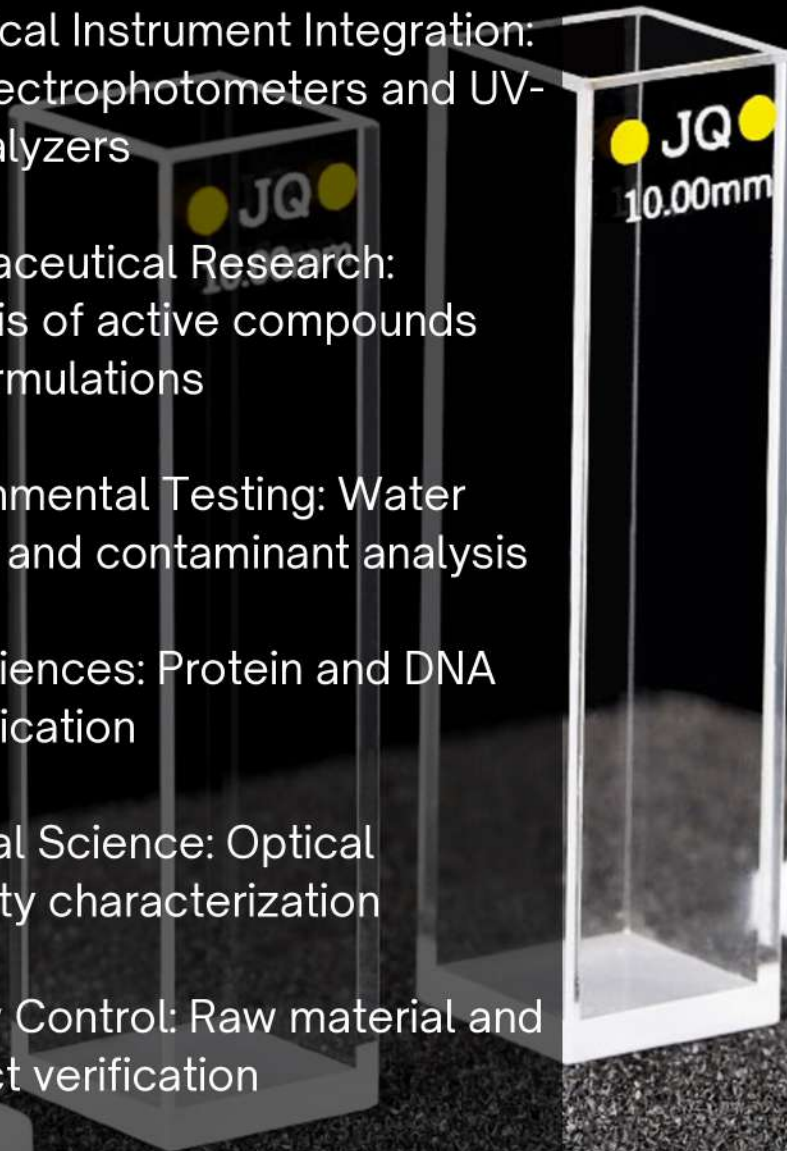


TOQUARTZ® MALVERN QUARTZ UV CUVETTE



Applications

- Analytical Instrument Integration:
For spectrophotometers and UV-Vis analyzers
- Pharmaceutical Research:
Analysis of active compounds and formulations
- Environmental Testing: Water quality and contaminant analysis
- Life Sciences: Protein and DNA quantification
- Material Science: Optical property characterization
- Quality Control: Raw material and product verification





TECHNICAL SPECIFICATIONS

Parameter	Specification	Notes
Model	AT-BSM-029	Standard catalog item
Material	99.995% SiO ₂	High-purity optical grade quartz
Path Length	10mm ±0.1mm	Standard for UV-Vis applications
Internal Volume	350µl	Optimal for standard analysis
Dimensions (Outer)	12x12x45 mm	Compatible with standard holders
Wall Thickness	1.0mm ±0.1mm	Provides structural integrity



TECHNICAL SPECIFICATIONS

Parameter	Specification	Notes
Wavelength Range	190nm-2500nm	Covers UV through NIR range
Transmittance	>80% (Paired Testing)	Across specified wavelength range
Surface Finish	Ra≤0.01μm	Optical quality polished
Thermal Expansion	5.5×10 ⁻⁷ /°C	Low expansion for temperature stability
Temperature Resistance	Up to 1100°C	For high-temperature applications
Chemical Resistance	Excellent	Resistant to most acids, bases, solvents



SIZE CHART



Transparent Malvern Quartz UV Cuvette for UV-Vis Spectroscopy

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM-029	Transparent Malvern Quartz UV Cuvette for UV-Vis Spectroscopy	190nm-2500nm	10mm	350µl	>80% (Paired Testing)	12x12x45 mm



CUSTOMIZATION OPTIONS

TOQUARTZ® offers extensive customization options including:

- Modified outer dimensions
- Special internal volumes
- Black-walled versions for fluorescence
- Flow-through designs
- Screw cap or PTFE stopper options



USAGE AND CARE

- Handle by non-optical sides to prevent fingerprints
- Clean with appropriate solvent followed by ultrapure water and ethanol rinse
- Avoid abrasive materials that can scratch optical surfaces
- Store in original protective case or dedicated rack in dust-free environment



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

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.