TOQUARTZ

# TOQUARTZ
## Product Catalog

# TOQUARTZ®
# UV-Grade Dual-Path Quartz Cuvette

Integrated Engineering & Agile Production
**for Demanded Specifications**

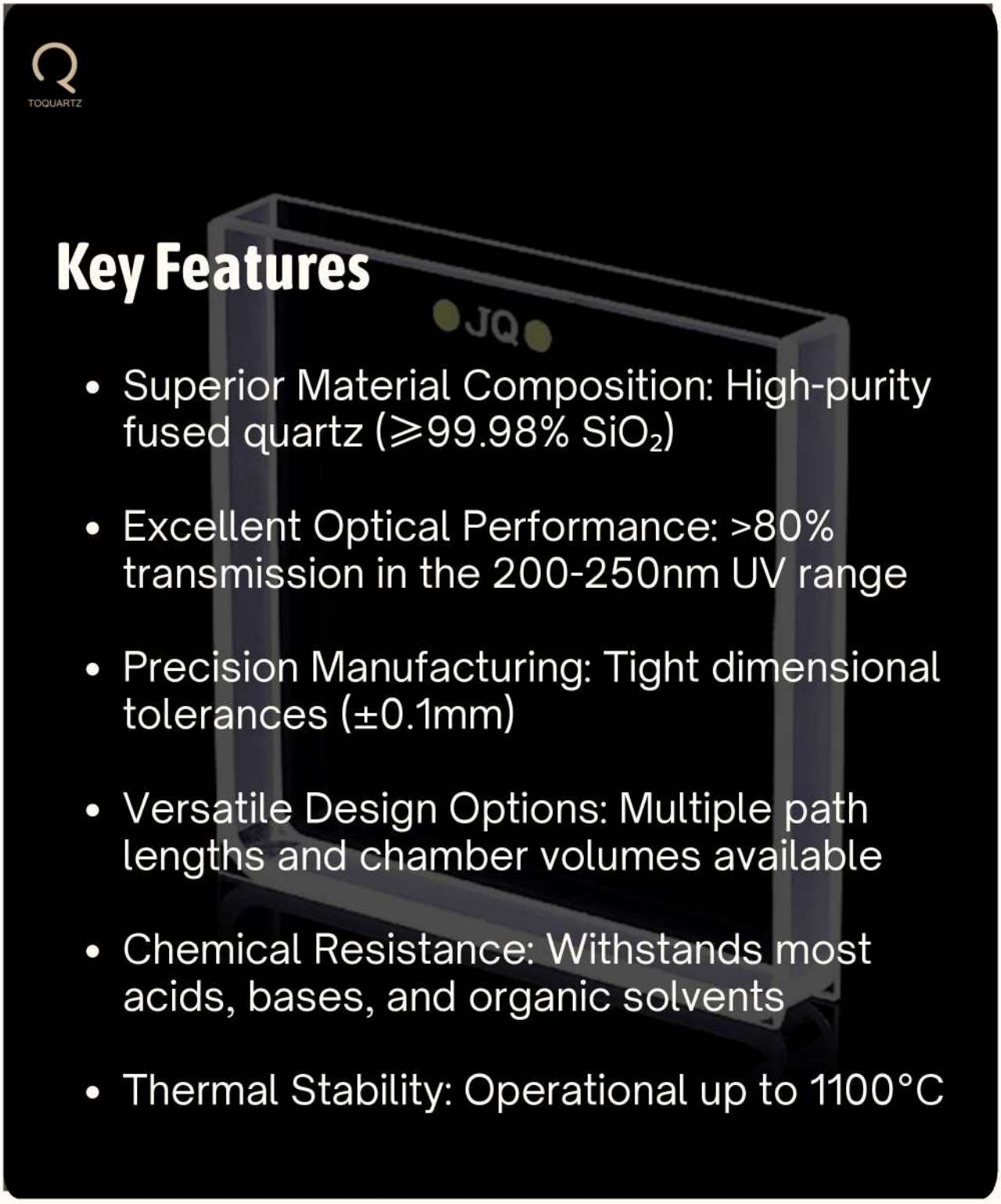
# TOQUARTZ® UV-GRADE DUAL-PATH QUARTZ CUVETTE

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® UV-Grade Dual-Path Quartz Cuvette with fast delivery and consistent quality.

## Product Overview

**TOQUARTZ® UV-Grade Dual-Path Quartz Cuvettes are precision-engineered optical cells designed for accurate spectroscopic analysis in the UV-Vis-NIR range. Manufactured from high-purity fused silica (≥99.98% $SiO_2$), these cuvettes offer exceptional optical transparency, chemical resistance, and thermal stability for demanding analytical applications.**

# TOQUARTZ® UV-GRADE DUAL-PATH QUARTZ CUVETTE




## Key Features

- Superior Material Composition: High-purity fused quartz (≥99.98% $SiO_2$)
- Excellent Optical Performance: >80% transmission in the 200-250nm UV range
- Precision Manufacturing: Tight dimensional tolerances (±0.1mm)
- Versatile Design Options: Multiple path lengths and chamber volumes available
- Chemical Resistance: Withstands most acids, bases, and organic solvents
- Thermal Stability: Operational up to 1100°C

# TOQUARTZ® UV-GRADE DUAL-PATH QUARTZ CUVETTE

## Applications

- Analytical instrumentation
- Medical diagnostics
- Environmental monitoring
- Scientific research
- Quality control laboratories
- Academic institutions

# TECHNICAL SPECIFICATIONS

*Physical Properties*

- Material: Fused Quartz (≥99.98% $SiO_2$)
- Density: 2.2 g/cm³
- Dimensional Tolerance: ±0.1mm
- Surface Finish: Optical Polish
- Thermal Expansion: $5.5\times10^{-7}$ /°C

*Optical Properties*

- Transmission Range: 200-2500nm
- UV Transmittance: >80% at 200-250nm
- Optical Surface Flatness: ≤λ/4
- Refractive Index (589.3nm): 1.4585

*Chemical Properties*

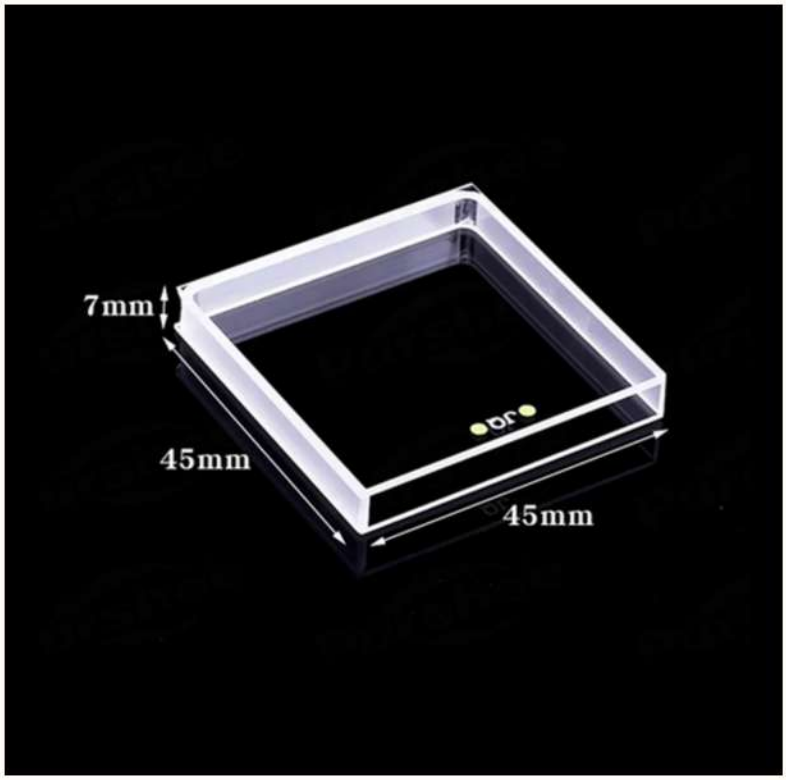
- Chemical Composition: ≥99.98% $SiO_2$
- Acid Resistance: Excellent (except HF)
- Alkali Resistance: Very Good
- Solvent Resistance: Excellent

# SIZE CHART

250µl UV-Grade Dual-Path Quartz Cuvette

| Model | Description | Wave length | Path Length | Volume | Transmittance | Outline Dimension |
|---|---|---|---|---|---|---|
| AT-BSM-043 | 250µl UV-Grade Dual-Path Quartz Cuvette | 200nm-2500nm | 5mm | 250µl | >80% (Paired Testing) | 7x7x15mm |

# SIZE CHART




7ml UV-Grade Dual-Path Quartz Cuvette

| Model | Description | Wave length | Path Length | Volume | Transmittance | Outline Dimension |
|---|---|---|---|---|---|---|
| AT-BSM-036 | 7ml UV-Grade Dual-Path Quartz Cuvette | 200nm-2500nm | 5mm | 7ml | >80% (Paired Testing) | 45x7x45mm |

# SIZE CHART


Standard UV-Grade Dual-Path Quartz Cuvette

| Model | Description | Wave length | Path Length | Volume | Transmittance | Outline Dimension |
|---|---|---|---|---|---|---|
| AT-BSM-060 | Standard UV-Grade Dual-Path Quartz Cuvette | 200nm-2500nm | 10mm | / | >80% (Paired Testing) | 12.5x12.5x44mm |

# CUSTOMIZATION OPTIONS

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

- Non-standard path lengths (0.5mm to 100mm)
- Custom chamber volumes and geometries
- Special wall thickness requirements
- Flow-through ports and connectors
- Black-masked optical windows
- Specialized lids and closures
- Multi-chamber compartments

# 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.*