



TOQUARTZ®

Product Catalog

Fused Quartz UV Cuvette with PTFE Stopper

Integrated Engineering & Agile Production
for Demanded Specifications



TOQUARTZ® FUSED QUARTZ UV CUVETTE WITH PTFE STOPPER

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® Fused Quartz UV Cuvette with PTFE Stopper with fast delivery and consistent quality.



Product Overview

TOQUARTZ® fused quartz UV cuvettes with PTFE stoppers are precision-manufactured optical cells designed for accurate spectrophotometric analysis in UV-Visible wavelength ranges. Made from 99.995% pure fused quartz, these cuvettes offer superior optical transmission from 200nm to 2500nm, making them ideal for analytical laboratories, research institutions, and OEM instrument manufacturers.

TOQUARTZ® FUSED QUARTZ UV CUVETTE WITH PTFE STOPPER



Key Features

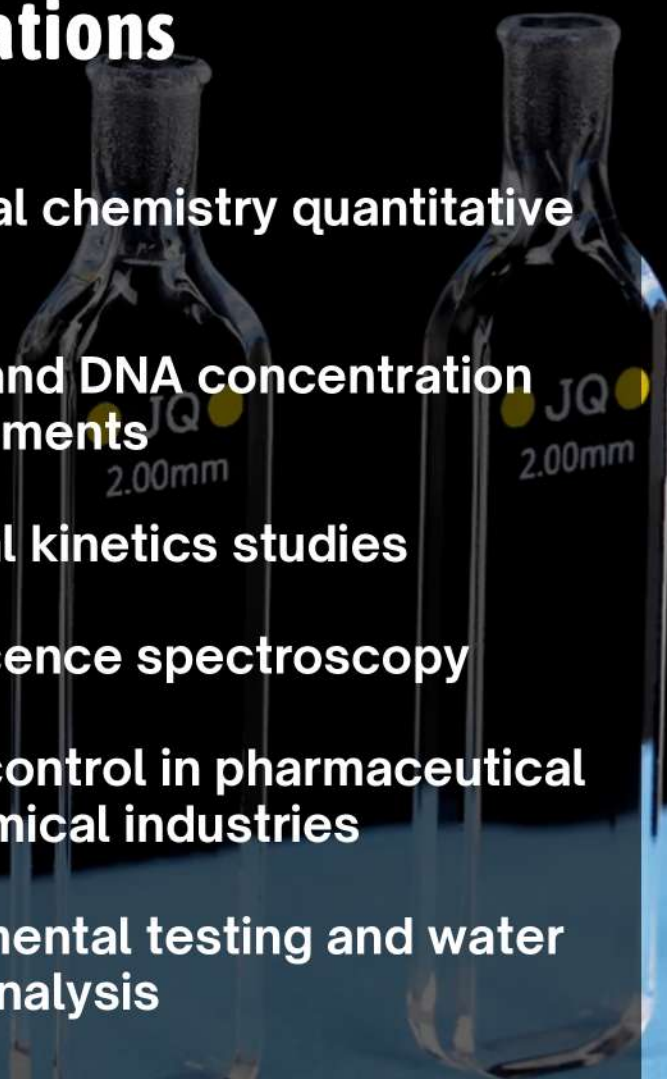
- Superior Optical Properties: 99.995% pure fused quartz with excellent UV-Visible transmission
- Precision Manufacturing: $\pm 0.1\text{mm}$ dimensional tolerance for consistent results
- Chemical Resistance: Exceptional resistance to acids, bases, and organic solvents
- Secure Sealing: PTFE stoppers provide chemically inert, leak-proof sample containment
- Thermal Stability: High temperature resistance up to 1100°C with low thermal expansion
- Versatile Applications: Suitable for UV-Vis spectroscopy, fluorescence analysis, and more

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Applications

- Analytical chemistry quantitative analysis
- Protein and DNA concentration measurements
- Chemical kinetics studies
- Fluorescence spectroscopy
- Quality control in pharmaceutical and chemical industries
- Environmental testing and water quality analysis
- Research and development laboratories





TECHNICAL SPECIFICATIONS

Material Properties

- Composition: 99.995% SiO₂
- Density: 2.2 g/cm³
- Thermal Expansion: 5.5×10^{-7} /°C
- Max Operating Temperature: 1100°C
- Stopper Material: PTFE (Polytetrafluoroethylene)

Optical Properties

- Wavelength Range: 200-2500nm
- Transmittance: >80% (Paired Testing)
- Refractive Index: 1.4585 at 589.3nm
- Surface Finish: Optical grade polished



STANDARD SIZE



350µl Quartz Cuvette Cell with PTFE Stopper

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM-028	350µl Quartz Cuvette Cell with PTFE Stopper	200nm-2500nm	1mm	350µl	>80% (Paired Testing)	12.5x3.5x45 mm



STANDARD SIZE



700µl Quartz Cuvette Cell with PTFE Stopper

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM-032	700µl Quartz Cuvette Cell with PTFE Stopper	200nm-2500nm	2mm	700µl	>80% (Paired Testing)	12.5x4.5x45 mm



CUSTOMIZATION OPTIONS

TOQUARTZ® offers comprehensive customization services including:

- Custom path lengths (1mm-100mm)
- Special dimensions and volumes
- Black-walled options for fluorescence
- Flow-through modifications
- Multi-cell arrays
- Custom surface treatments



CARE AND MAINTENANCE

Cleaning Guidelines

1. Rinse with appropriate solvent immediately after use
2. For stubborn residues, soak in 2% laboratory detergent
3. Rinse thoroughly with distilled water
4. Final rinse with spectroscopic grade solvent
5. Air dry or use filtered compressed air

Storage Recommendations

- Store in original protective case
- Keep PTFE stoppers with matching cuvettes
- Store in clean, dry environment away from chemicals



ABOUT TOQUARTZ®

TOQUARTZ® is a specialized manufacturer of high-quality quartz glass products for industrial, laboratory, and optical applications. Our factory-direct approach eliminates intermediaries, providing cost-effective solutions with responsive technical support. We welcome small batch orders and offer 24-hour shipping for standard items.

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.