



TOQUARTZ
Tech Specifications

TOQUARTZ®
Quartz Cuvette Fluorescence
UV Sample Cell
with PTFE Stopper
Product Catalog

Integrated Engineering & Agile Production
for Demanded Specifications



TOQUARTZ® QUARTZ CUVETTE FLUORESCENCE UV SAMPLE CELL 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 Fluorescence Quartz Cuvette with PTFE Stopper with fast delivery and consistent quality.



Product Overview



TOQUARTZ® Fluorescence Quartz Cuvette with PTFE Stopper provides superior optical performance for UV-Vis spectroscopy and fluorescence analysis. Featuring 99.995% high-purity quartz construction, precision dimensions ($\pm 0.1\text{mm}$ tolerance), and reliable PTFE sealing technology, these cuvettes deliver consistent results for analytical instrumentation, research laboratories, and diagnostic applications.

TOQUARTZ® QUARTZ CUVETTE FLUORESCENCE UV SAMPLE CELL WITH PTFE STOPPER



Key Features

- **Superior Optical Properties**

1. 99.98%+ SiO₂ purity for maximum light transmission
2. Wide wavelength range (200nm-2500nm) covering UV and visible spectrum
3. Over 80% transmittance in paired testing across the spectral range
4. Precision polished optical surfaces minimizing light scatter

- **Structural Advantages**

1. High structural strength with fracture modulus >350MPa
2. Chemical resistance to acids, bases, and most solvents
3. Temperature stability up to 1100°C
4. PTFE stopper provides chemical-resistant, airtight sealing

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Applications

- **Biological Research:** DNA/protein quantification, fluorescent protein studies
- **Environmental Analysis:** Water quality testing, trace contaminant detection
- **Analytical Instrumentation:** Integration with spectrofluorometers and analyzers
- **Pharmaceutical R&D:** Drug discovery and formulation testing
- **Educational Institutions:** Teaching and research laboratories



TECHNICAL SPECIFICATIONS

Parameter	Specification
Material	High-purity quartz (+99.98% SiO ₂)
Thermal Expansion Coefficient	5.5×10 ⁻⁷ /°C
Thermal Conductivity	120-160 W/m.K
Stopper Material	Optical polishing on windows
Surface Finish	Optical polish, minimal scatter
Optical Quality Control	100% visual inspection



SIZE CHART



350µl Fluorescence Quartz UV Cuvette with PTFE Stopper

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM-021	350µl Fluorescence Quartz UV Cuvette with PTFE Stopper	200nm- 2500nm	1mm	350µl	>80% (Paired Testing)	12.5x3.5x45 mm



SIZE CHART



700µl Fluorescence Quartz UV Cuvette with PTFE Stopper

Model	Description	Wavele ngth	Path Length	Volume	Transmittanc e	Outline Dimension
AT-BSM-023	700µl Fluorescence Quartz UV Cuvette with PTFE Stopper	200nm-2500nm	2mm	700µl	>80% (Paired Testing)	12.5x4.5x45 mm



CUSTOMIZATION OPTIONS

TOQUARTZ® offers comprehensive customization services for Fluorescence Quartz Cuvette with PTFE Stopper, including:

- Custom dimensions
- Special internal volumes for sample conservation
- Black-walled options to reduce light scatter
- Multi-window designs for specialized detection angles
- Flow-through adaptations for continuous monitoring



USAGE & CARE GUIDELINES

Proper handling and maintenance will ensure optimal performance and extended service life. For detailed cleaning protocols and storage recommendations, please refer to our comprehensive user guide or contact our technical support team.



QUALITY ASSURANCE

All TOQUARTZ® Fluorescence Quartz Cuvette with PTFE Stopper undergo rigorous quality control to ensure consistent performance in demanding applications.:

- Dimensional verification
- Optical transmission testing
- Surface quality inspection
- Material purity confirmation

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.