

TOQUARTZ Product Catalog

TOQUARTZ® Quartz Micro Fluorescence Cuvette with PTFE Lid

Integrated Engineering & Agile Production

for Demanded Specifications



© 2025 TOQUARTZ® All Rights Reserved.



TOQUARTZ® QUARTZ MICRO FLUORESCENCE CUVETTE WITH PTFE 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® Quartz Micro Fluorescence Cuvette with PTFE Lid with fast delivery and consistent quality.





TOQUARTZ® QUARTZ MICRO FLUORESCENCE CUVETTE WITH PTFE LID



Key Features

- Exceptional UV-VIS-NIR transmission (200-2500nm)
- Superior chemical resistance against acids, bases, and solvents
- Polished surfaces with no bubbles or scratches
- Optimal fluorescence signal with minimal background
- PTFE lid prevents evaporation and contamination
- Micro-volume capacity for precious sample conservation



TOQUARTZ® QUARTZ MICRO FLUORESCENCE CUVETTE WITH PTFE LID





TECHNICAL SPECIFICATIONS

Physical Properties:

Material: High-purity quartz

Purity: ≥99.995% SiO₂

Density: 2.2 g/cm³

Thermal Expansion: 5.5×10⁻⁷ /°C

Hardness: 5.5-6.5 Mohs

Chemical Properties:

Acid Resistance: Excellent

Alkali Resistance: Excellent

· Solvent Resistance: Excellent

· Water Absorption: Negligible

Chemical Inertness: Very High

Optical Properties:

Transmission Range: 200-2500nm

Refractive Index: 1.46 (at 589.3nm)

UV Cutoff: 170nm

IR Cutoff: 3500nm

Optical Homogeneity: ±0.0001



350µl Quartz Micro Fluorescence Cuvette with PTFE Lid

Model	Description	Wavelength	PathLen gth	Volume	Thermal Stability	Outline Dimension
AT-BSM- 4001	350µl Quartz Micro Fluorescence Cuvette with PTFE Lid	200nm- 2500nm	10mm	350µl	100°C	12.5x12.5x 45mm



700µl Quartz Micro Fluorescence Cuvette with PTFE Lid

Model	Description	Wavelength	PathLen gth	Volume	Thermal Stability	Outline Dimension
AT-BSM- 4002	700µl Quartz Micro Fluorescence Cuvette with PTFE Lid	200nm- 2500nm	10mm	700µl	100°C	12.5x12.5x 45mm



700µl Quartz Micro Fluorescence Cuvette with PTFE Lid

Model	Description	Wavelength	PathLen gth	Volume	Thermal Stability	Outline Dimension
AT-BSM- 4009	700µl Quartz Micro Fluorescence Cuvette with PTFE Lid	200nm- 2500nm	10mm	700µl	600°C	12.5x12.5x 45mm



560µl Quartz Micro Fluorescence Cuvette with PTFE Lid

Model	Description	Wavelength	PathLen gth	Volume	Thermal Stability	Outline Dimension
AT-BSM- 4014	560µl Quartz Micro Fluorescence Cuvette with PTFE Lid	200nm- 2500nm	4mm	560µl	600°C	12.5x12.5x 45mm



1400µl Quartz Micro Fluorescence Cuvette with PTFE Lid

Model	Description	Wavelength	PathLen gth	Volume	Thermal Stability	Outline Dimension
AT-BSM- 4026	1400µl Quartz Micro Fluorescence Cuvette with PTFE Lid	200nm- 2500nm	10mm	1400µl	100°C	12.5x12.5x 45mm



1050µl Quartz Micro Fluorescence Cuvette with PTFE Lid

Model	Description	Wavelength	PathLen gth	Volume	Thermal Stability	Outline Dimension
AT-BSM- 4029	1050µl Quartz Micro Fluorescence Cuvette with PTFE Lid	200nm- 2500nm	10mm	1050µl	600°C	12.5x12.5x 45mm



1750µl Quartz Micro Fluorescence Cuvette with PTFE Lid

Model	Description	Wavelength	PathLen gth	Volume	Thermal Stability	Outline Dimension
AT-BSM- 4035	1750µl Quartz Micro Fluorescence Cuvette with PTFE Lid	200nm- 2500nm	10mm	1750µl	100°C	12.5x12.5x 45mm

Q CUSTOM ENGINEERING SERVICES

Dimensional Customization:

- Custom optical path lengths (1-50mm)
- Specialized internal volumes (100µl-5ml)
- Non-standard external dimensions
- Precision tolerances to ±0.1mm

Specialized Surface Treatments:

- Black wall coatings for low background
- Anti-reflective coatings for specific wavelengths
- Frosted surfaces for reduced stray light
- · Enhanced signal-to-noise ratio options

Specialized Lid Options:

- · Screw-top lids for enhanced sealing
- High-temperature lids (up to 600°C)
- · Septum ports for sample addition
- Custom sealing solutions

Custom Project Workflow:

- Initial Consultation
- 2. Prototype Design
- Sample Production
- 4. Production & Quality Control

© 2025 TOQUARTZ® All Rights Reserved.

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

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.