



TOQUARTZ

Product Catalog

TOQUARTZ®

Quartz Fluorescence

Cuvette with PTFE Stopper

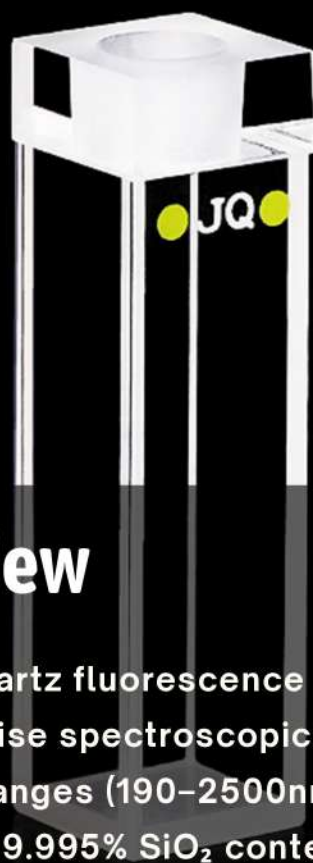
Integrated Engineering & Agile Production
for Demanded Specifications





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



Product Overview

TOQUARTZ® High-purity quartz fluorescence cuvette with PTFE stopper, designed for precise spectroscopic analysis in UV, visible, and near-infrared ranges (190–2500nm). Manufactured using fused quartz with $\geq 99.995\%$ SiO_2 content for superior optical performance and chemical resistance.



TOQUARTZ® QUARTZ FLUORESCENCE CUVETTE WITH PTFE STOPPER



Key Features

- Material Purity: $\geq 99.995\%$ SiO₂ content
- Transmission Range: 190-2500nm
- Chemical Resistance: Excellent against acids, bases, and organic solvents
- PTFE Stopper: Chemically inert, prevents evaporation and contamination

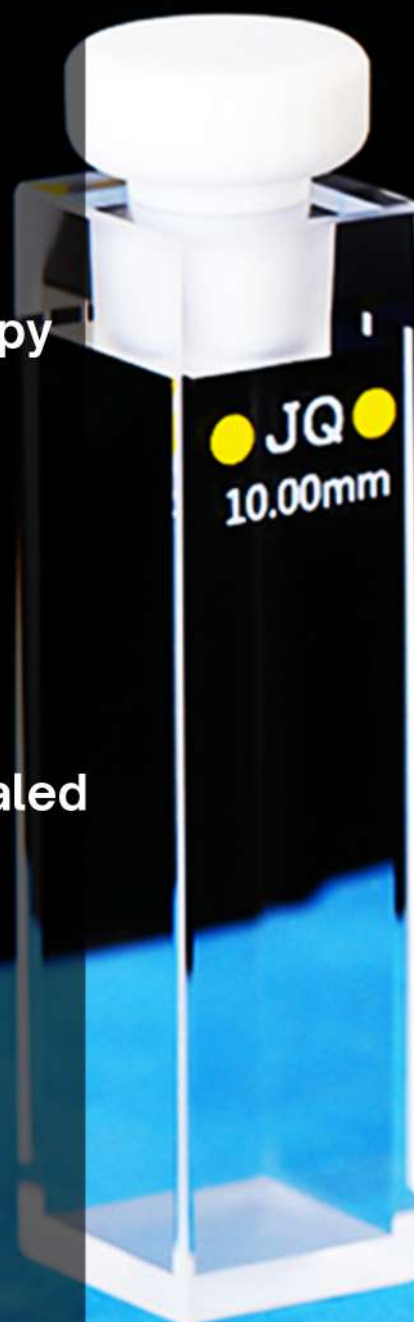


TOQUARTZ® QUARTZ FLUORESCENCE CUVETTE WITH PTFE STOPPER



Applications

- Fluorescence spectroscopy
- UV-Vis absorption measurements
- Photochemical studies
- Reaction monitoring in sealed environments
- Chemical and biological sample analysis





TECHNICAL SPECIFICATIONS

Physical Properties:

Parameter	Value	Unit
Density	2.20	g/cm ³
Fracture Modulus	≥350	MPa
Thermal Expansion Coefficient	5.5×10^{-7}	/°C
Thermal Conductivity	120-160	W/m·K
Max Operating Temperature	1100	°C
Surface Finish	Optically polished	-

Chemical Properties:

Parameter	Value	Unit
SiO ₂ Content	≥99.995	%
OH Content	≤30	ppm
Acid Resistance	Excellent (except HF)	-
Alkali Resistance	Excellent	-

Optical Properties:

Parameter	Value	Unit
Transmission Range	190-2500	nm
Transmission at 200nm	≥80	%
Transmission at 500nm	≥93	%
Refractive Index (at 589.3nm)	1.4585	-
Fluorescence	Minimal	-



SIZE CHART



350µl Quartz Fluorescence Cuvette with PTFE Stopper Path Length 1mm

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-6008	350µl Quartz Fluorescence Cuvette with PTFE Stopper Path Length 1mm	1mm	350µl	12.5x12.5x45 mm



SIZE CHART



350µl Quartz Fluorescence Cuvette with PTFE Stopper Path Length 70mm

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-6008-1	350µl Quartz Fluorescence Cuvette with PTFE Stopper Path Length 70mm	70mm	350µl	12.5x12.5x45 mm



SIZE CHART



350µl standard Quartz Fluorescence Cuvette with PTFE Stopper

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-6016	350µl standard Quartz Fluorescence Cuvette with PTFE Stopper	10mm	350µl	12.5x12.5x45 mm



SIZE CHART



3500µl Quartz Fluorescence Cuvette with PTFE Stopper

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-6016-1	3500µl Quartz Fluorescence Cuvette with PTFE Stopper	10mm	3500µl	12.5x12.5x45 mm



SIZE CHART



700µl Quartz Fluorescence Cuvette with PTFE Stopper Path Length 10mm

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-6016-2	700µl Quartz Fluorescence Cuvette with PTFE Stopper Path Length 10mm	10mm	700µl	12.5x12.5x45 mm



SIZE CHART



700µl Quartz Fluorescence Cuvette with PTFE Stopper Path Length 20mm

Model	Description	Path Length	Volume	Outline Dimension	Outer Dia.	Height2
AT-BSM-6016-2-1	700µl Quartz Fluorescence Cuvette with PTFE Stopper Path Length 20mm	20mm	700µl	12.5x12.5x45mm	3mm	30mm



SIZE CHART



1400µl Quartz Fluorescence Cuvette Cell with PTFE Stopper

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-6016-3	1400µl Quartz Fluorescence Cuvette Cell with PTFE Stopper	10mm	1400µl	12.5x12.5x45 mm



SIZE CHART



1750µl Quartz Fluorescence Cuvette with PTFE Stopper Path Length 5mm

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-6016-4	1750µl Quartz Fluorescence Cuvette with PTFE Stopper Path Length 5mm	5mm	1750µl	12.5x12.5x45 mm



SIZE CHART



1750µl Quartz Fluorescence Cuvette with PTFE Stopper Path Length 10mm

Model	Description	Path Length	Volume	Outline Dimension
AT-BSM-6016-4-1	1750µl Quartz Fluorescence Cuvette with PTFE Stopper Path Length 10mm	10mm	1750µl	12.5x12.5x45 mm



CUSTOM ENGINEERING SERVICES

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

- Custom path lengths from 0.5mm to 100mm
- Non-standard external dimensions
- Modified stopper designs
- Multiple optical windows (3 or 4 sided)
- Special surface treatments and coatings



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.