



TOQUARTZ
Tech Specifications

TOQUARTZ® Fluorescence Quartz Cuvette Product Catalog

Integrated Engineering & Agile Production
for Demanded Specifications



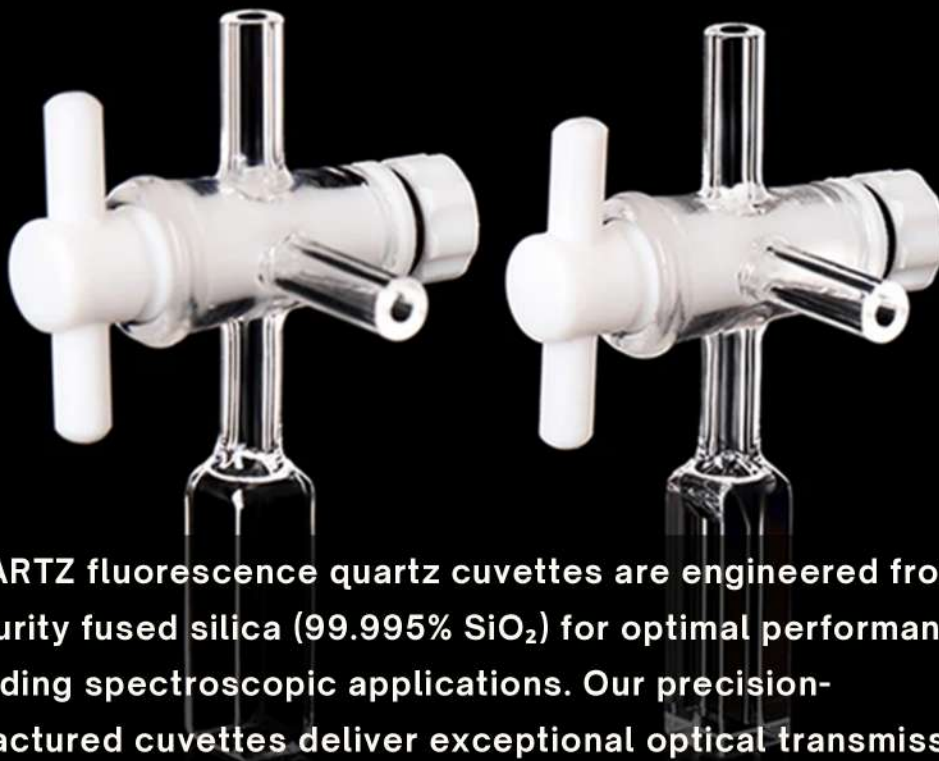
TOQUARTZ® FLUORESCENCE QUARTZ CUVETTE

High Precision Spectroscopy Solutions

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 cuvettes with fast delivery and consistent quality.



Product Overview



TOQUARTZ fluorescence quartz cuvettes are engineered from high-purity fused silica (99.995% SiO₂) for optimal performance in demanding spectroscopic applications. Our precision-manufactured cuvettes deliver exceptional optical transmission across a wide spectrum from deep UV to infrared, making them ideal for research laboratories, analytical instrument manufacturers, and diagnostic applications.

TOQUARTZ® FLUORESCENCE QUARTZ CUVETTE



Key Features

- **Superior Optical Properties:** Exceptional transmission range from 200nm to 2500nm with no absorption peaks
- **High Chemical Resistance:** Resistant to most acids, bases, and organic solvents
- **Thermal Stability:** Withstands temperatures up to 1100°C with low thermal expansion coefficient
- **Precise Dimensions:** Manufactured to tight tolerances of $\pm 0.1\text{mm}$ for critical dimensions
- **Low Background Fluorescence:** Minimal intrinsic fluorescence for improved signal-to-noise ratio
- **Multiple Path Length Options:** Standard and custom options from 1mm to 100mm

TOQUARTZ® FLUORESCENCE QUARTZ CUVETTE



Applications

- **Research & Academic Laboratories:** DNA/RNA quantification, protein analysis, fluorescent probe development
- **Analytical Instrument Manufacturers:** Spectrofluorometers, multi-mode readers, diagnostic equipment
- **Medical Diagnostics:** Fluorescence immunoassays, clinical chemistry, biomarker detection
- **Environmental Testing:** Water quality monitoring, contaminant analysis, trace element detection
- **Pharmaceutical R&D:** Drug development, formulation analysis, quality control



TECHNICAL SPECIFICATIONS

- **Material:** High-purity fused silica (SiO_2) - 99.995% purity
- **Optical Path Length:** 1, 2, 5, 10, 20, 50, 100 mm (custom sizes available)
- **External Dimensions:** 12.5 × 12.5 × 45 mm (standard)
- **Wall Thickness:** 1.25 mm (± 0.1 mm tolerance)
- **Wavelength Range:** 120 - 4500 nm (no absorption peaks)
- **Transmission:** $\geq 83\%$ (200-800nm) for 10mm path length
- **Temperature Resistance:** Up to 1100°C
- **Chemical Resistance:** Excellent (stable with most acids, bases except HF)
- **Surface Finish:** Polished optical surfaces, scratch-free, chamfered edges
- **Available Configurations:** Standard, micro, semi-micro, macro (with/without PTFE lids)



SIZE CHART



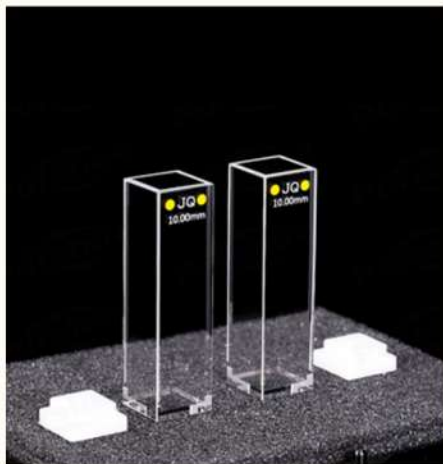
Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6001	Quartz cuvette cell with screw cap/10mm/two channel/3.5ml/700ul	700ul/3.5ml	10mm	12.5x4.5x55mm	200nm-2500nm



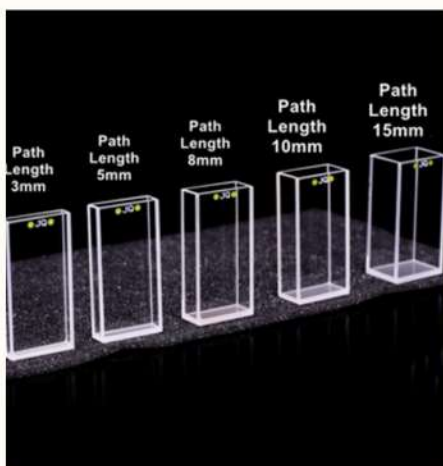
Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6001-1	Quartzfluorescence cuvette cell sealed customized	700ul/3.5ml	10mm	12.5*12.5*45mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6002	Quartz fluorescence cuvette with lid(five windows)/10mm	3.5ml	10mm	12.5x12.5x45 mm	200nm-2500nm



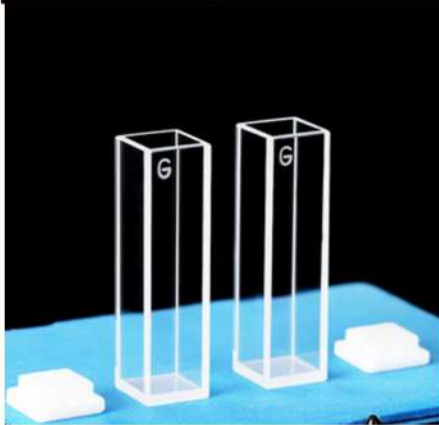
Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6002-1	Quartz fluorescence cuvette	2.1/3.5/5 .6/7ml	3/5/8/10mm	/	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6003	1pcs Standard quartz fluorescence cuvette cell with lid(10mm) four surfaces are transparent High transmittance without glue	3.5ml	10mm	12.5x12.5x45 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6004	1pcs 4.5ml glass fluorescence cell with lid(10mm)	3.5ml	10mm	12.5x12.5x45 mm	350nm-2000nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6004-1	Malvern glass sample cell	3.5ml	10mm	12*12*45mm	350nm-2000nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6004-2	Quartz square cell with thread hole in bottom	24ml	20mm/40mm(4 way light)	42*22*31mm	350nm-2000nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6004-3	Glass fluorescence cell	9ml	8mm/28 mm	30*45*10mm	350nm-2000nm



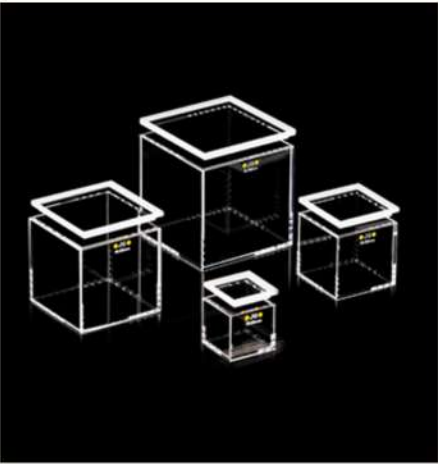
Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6004-4	Glass fluorescence cell customized	1.4ml	1mm/25 mm	55*31*11mm	350nm-2000nm



SIZE CHART



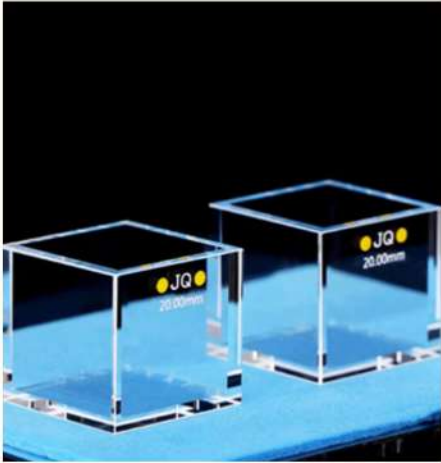
Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6005	Standard quartz fluorescence cell with lid(40mm)	14ml	10mm/40mm	12.5x42.5x45mm	200nm-2500nm



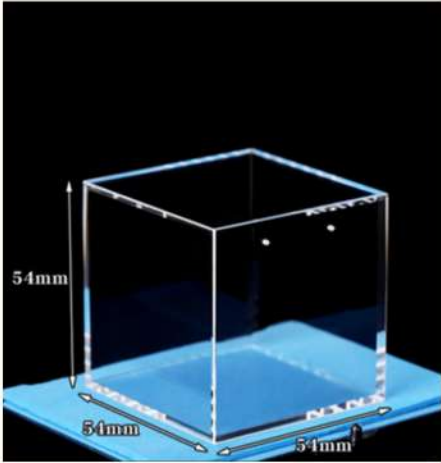
Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6006	20mm/30mm/40mm/50mm Quartz fluorescence reaction cell cuvette	8ml/ 27ml/ 64ml/ 125ml	20mm/ 30mm/ 40mm/ 50mm	24x24x22mm(8ml)/ 34x34x32mm(27ml)/ 44x44x42mm(64ml)/ 54x54x52mm(125ml)	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6006-1	Quartz fluorescence cuvette cell	8ml	20mm	24x24x22mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6006-2	Quartz fluorescence cuvette cell	125ml	50mm	54x54x54mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6007	50mm Quartz fluorescence cuvette cell	17.5ml	10/50mm	12.5x52.5x45mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6008	350ul Quartz Micro Fluorescence Sealed Cuvette	350ul	1mm/10mm	12.5x12.5x45mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6009	53ml Quartz fluorescent cuvette cell	53ml	20mm/50 mm	24x54x55mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6010	Quartz fluorescence cuvette with lid(Special products)1.75mlx2	1.75ml+1.75ml	10mm	12.5x12.5x45 mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6011	20mm Quartz reaction cuvette cell	16ml	20mm	20x20x40mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6012	Standard quartz fluorescence cell with lid (10mm)	3.5ml	10mm	12.5x12.5x45mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6013	Standard quartz fluorescence cell with lid(30mm)	10.5ml	10mm/30 mm	12.5x32.5x45mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6014	Standard quartz fluorescence cell with lid(20mm)	7ml	10mm/20mm	12.5x22.5x45mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6015	1pcs Standard quartz fluorescence cell with lid(5mm) no glue	1.75ml	5mm	7.5x12.5x45 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6016	Quartz cell with stopper(10mm)/350ul/slit 1mm/fluorescence	350ul	10mmslit 1mm	12.5x12.5x45 mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6016-1	Quartz fluorescence cell sealed	3.5ml	10mm	12.5x12.5x45 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6016-2	Quartz micron fluorescence cell sealed	700ul	10mm/2mm	12.5x12.5x45 mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6016-3	Quartz micron fluorescence cell	1400ul	10mm	12.5x12.5x45 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6016-4	Quartz micron fluorescence cell	1750ul	5mm/10 mm	12.5x12.5x45 mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6017	Quartz cuvette cell with screw cap(10mm)/Four way light/1.75ml/Slit 5mm	1.75ml	10mm(4 way light)slit 5mm	12.5x12.5x52mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6018	Quartz micron fluorescence cell with thread cap	700ul	2mm/10mm	12.5x12.5x45mm	200nm-2500nm



SIZE CHART



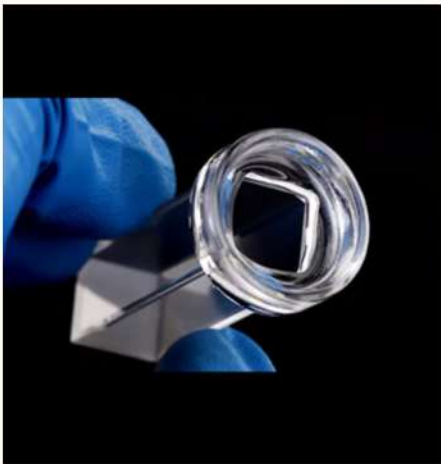
Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6019	Quartz micron fluorescence cell with black wall	45ul	3*3mm center height 15mm	12.5x12.5x45 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6020	Quartz micron fluorescence cell	2/3/4/5/10/13ul	1/1.5/2/2.5/5/6.5mm	12.5x12.5x45 mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6021	Quartz funnel fluorescent cell	3.5ml	10mm	12.5x12.5x46 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6022	Quartz micron fluorescence cell with thread cap	600ul	3/10mm	12.5x12.5x45 mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6023	Quartz fluorescence cell with 4 polished sides customized	customized	10mm	40x40x83mm	200nm-2500nm



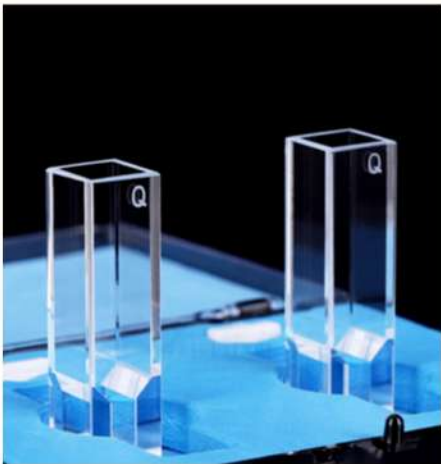
Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6024	Quartz micron fluorescence cell	1.75ml	5mm/10mm(2 polished sides)	12.5*12.5*75mm	200nm-2500nm



SIZE CHART



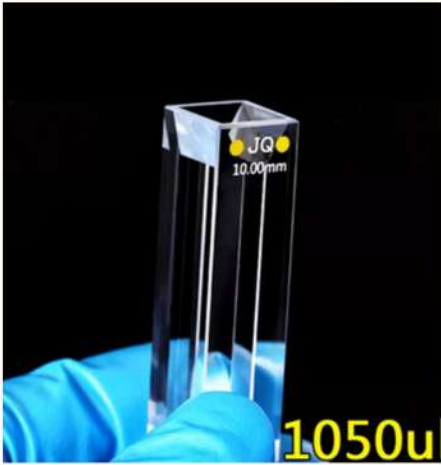
Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6025	Quartz micron fluorescence cell	110ul	4mm	6*6*10mminterior size:4*3.5*10mm4*4*10 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6026	Quartz micron fluorescence cell	400ul	4mm/10mmw indow size: 4*5mm	12.5x12.5x45 mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6027	Quartz micron fluorescence cell	1050ul	3mm/10 mm	12.5x12.5x45 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6029	Quartz triangle cuvette	1.75ml	/	13*13*18.4*45 mm	200nm-2500nm



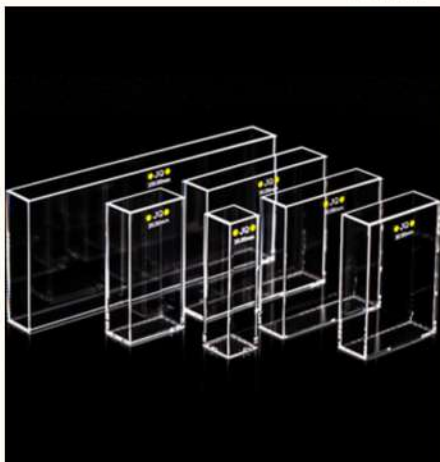
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Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6028	Quartz cuvettes 5 way light	350ul	1mm	12.5*3.5*45 mm	200nm-2500nm
AT-BSM-6028-1		700ul	1mm	12.5*3.5*45 mm	200nm-2500nm
AT-BSM-6028-2		1.75ml	5mm	12.5*7.5*45 mm	200nm-2500nm
AT-BSM-6028-3		3.5ml	10mm	12.5*12.5*45 mm	200nm-2500nm
AT-BSM-6028-4		7ml	20mm	22.5*12.5*45 mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6028-5	Quartz cuvettes 5 way light	10.5ml	30mm	32.5*12.5*45mm	200nm-2500nm
AT-BSM-6028-6		14ml	40mm	42.5*12.5*45mm	200nm-2500nm
AT-BSM-6028-7		17.5ml	50mm	52.5*12.5*45mm	200nm-2500nm
AT-BSM-6028-8		35ml	100mm	102.5*12.5*45mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6030	Quartz triangle cuvette	/	/	40mm	/



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-6031	Quartz atomic gas chamber	/	1mm/ 3mm/ 6mm/ 10mm/ 18mm/ custom	1mm: 45*5*2mm 3mm: 4*4mm 6mm: 8*8mm 10mm: 12*12mm 18mm: 20*20mm custom: 45*25*2mm Double hole air chamber:7*7*7mm	200nm-2500nm



CUSTOMIZATION OPTIONS

TOQUARTZ® engineering team specializes in custom fluorescence quartz cuvette solutions:

- Custom Dimensions:

Tailored external dimensions, wall thickness, and path lengths

- Specialized Configurations:

Flow-through designs, fiber optic interfaces, sealed compartments

- Surface Treatments:

Special optical polishing and surface modifications

- Technical Support:

Design optimization and integration assistance



USAGE & MAINTENANCE GUIDE

Handling Recommendations:

- Handle by frosted or non-optical sides
- Store in protective case when not in use
- Allow equilibration time between temperature environments

Cleaning Protocol:

- Rinse immediately after use with appropriate solvent
- For general cleaning: ethanol-water (50:50) mixture followed by distilled water rinses
- For organic contaminants: ethanol-HCl mixture (2:1) with thorough water rinses
- Air dry in vertical position on clean, lint-free material

Important: Avoid alkaline cleaning solutions, abrasive materials, detergents, and hydrofluoric acid



QUALITY ASSURANCE

All TOQUARTZ® fluorescence quartz cuvettes undergo rigorous quality control to ensure consistent performance in demanding applications.:

- Dimensional verification
- Material composition analysis
- Visual inspection for defects
- Thermal shock resistance testing

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.