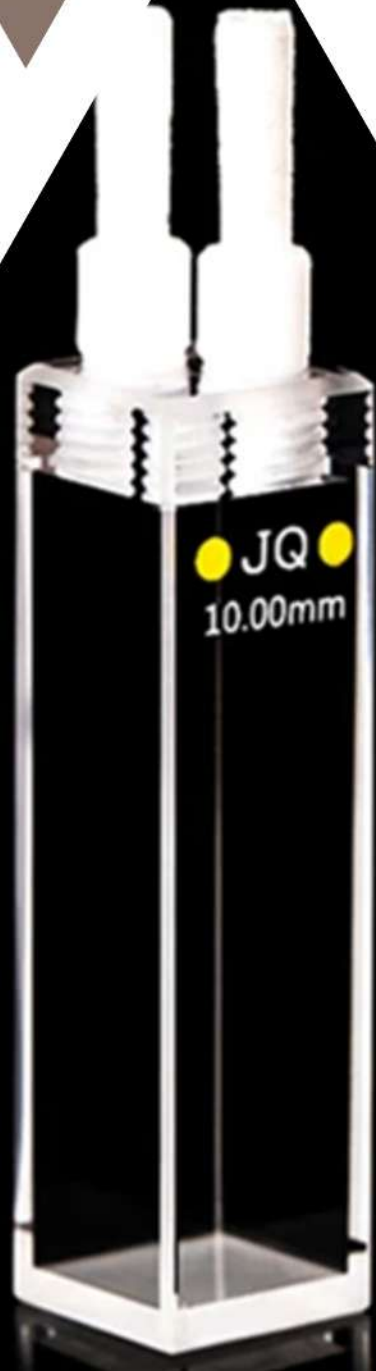




TOQUARTZ
Tech Specifications

TOQUARTZ® **Air Free** **Quartz Cuvette** **Product Catalog**

Integrated Engineering & Agile Production
for Demanded Specifications



TOQUARTZ® AIR FREE QUARTZ CUVETTE

Vacuum Quartz Cells for Laboratory Spectroscopy Applications

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 air free quartz cuvettes with fast delivery and consistent quality.



TOQUARTZ

Product Overview



High-purity (99.995% SiO₂) air free quartz cuvettes designed for sensitive spectroscopy applications requiring inert atmosphere or vacuum conditions. Featuring reliable sealing mechanisms, precise optical path lengths, and exceptional wavelength transmission range from 200nm to 2500nm.

VACUUM FUSED QUARTZ CUVETTE



Key Features

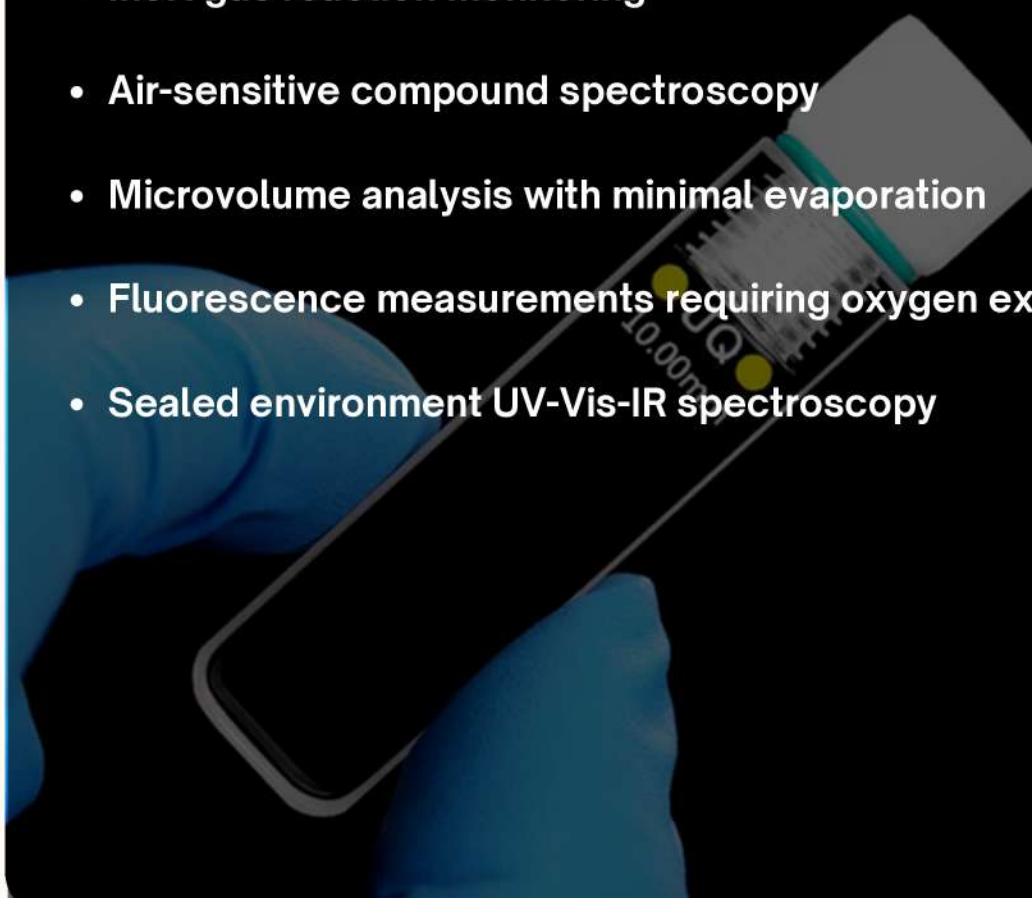
- **High Purity Material:** Manufactured from 99.995% SiO₂ quartz, providing exceptional chemical resistance and optical clarity.
- **Superior Optical Transmission:** Wavelength range from 120nm to 4500nm with no absorption peaks.
- **Reliable Sealing Mechanism:** Precision-engineered PTFE stoppers or ground glass joints.
- **Chemical Resistance:** Excellent stability against acids, bases, and most chemical reagents.
- **Precision Dimensions:** Path length options with dimensional tolerances of $\pm 0.1\text{mm}$.
- **Customization Options:** Engineering support for custom designs and specifications.

VACUUM QUARTZ GLASS CUVETTE



Applications

- Oxygen-sensitive sample analysis
- Inert gas reaction monitoring
- Air-sensitive compound spectroscopy
- Microvolume analysis with minimal evaporation
- Fluorescence measurements requiring oxygen exclusion
- Sealed environment UV-Vis-IR spectroscopy





TECHNICAL SPECIFICATIONS

Material: High-purity quartz (99.995% SiO₂)

Optical Properties:

- Transmission Range: 120nm - 4500nm
- Absorbance Range: 0.01 - 3.0 AU (depending on path length)

Sealing Options:

- PTFE Stoppers (Standard)
- Ground Glass Joints
- Custom Sealing Solutions

Performance Parameters:

- Temperature Resistance: Up to 1100°C (quartz body)
- Thermal Expansion: $5.5 \times 10^{-7}/K$
- Chemical Compatibility: Resistant to most solvents except HF



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5001	3.5ml Quartz fluorometer flow cuvette (10mm)	3.5ml	10mm	12.5x12.5x45 mm	200nm-2500nm



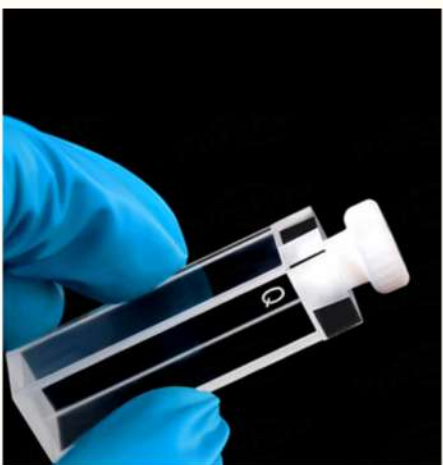
Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5002	1pcs Quartz fluorescence cuvette cell with screw cap(10mm) for lab	3.5ml	10mm	12.5x12.5x60 mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5003	1pcs Quartz cuvette cell with screw cap(10mm)	3.5ml	10mm	12.5x12.5x45 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5004	1pcs Standard quartz fluorescence cuvette cell with stopper(10mm) corrosion resisting without glue	3.5ml	10mm(4 polished sides)	12.5x12.5x45 mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5005	1PCS 10mm quartz closed fluorescent cuvette airtight 1cm paired UV quartz band plug	3.5ml	10mm(4 polished sides)	12.5x12.5x45 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5006	1PCS 10mm quartz closed cuvette airtight 1cm paired UV quartz band plug two pass light	3.5ml	10mm(2 polished sides)	12.5x12.5x45 mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5007	Quartz cell with stopper(10mm)/3.5ml	3.5ml	10mm	12.5x12.5x45 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5008	Quartz cell with stopper(10mm)/Trace colorimetric dish/350ul	350ul	10mm	12.5x12.5x45 mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5009	Quartz cell with stopper(10mm)/700ul/slit 2mm/fluorescence	700ul	10mm	12.5x12.5x45 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5010	Quartz cuvette cell with screw cap(10/32mm)/11ml/six way light	11ml	10/30mm(6 polished sides)	12.5x32.5x45 mm	/



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5011	Quartz cuvette cell with screw cap(10mm)/Four way light/700ul/Slit 2mm	700ul	10mm(4 polished sides)slit 2mm	12.5x12.5x52mm	/



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5012	Quartz spiral cuvette/10mm/spiral cell/ Four way light	3.5ml	10mm	12.5*12.5*60mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5012-1	Quartz fluorescence cuvette cell with screw cap/ Five way light	3.5ml	10mm	12.5*12.5*60mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5013	Quartz micro fluorescent cuvette/spiral groove/UV seal/four-way light	350ul-1.75ml	10mm	12.5*12.5*53mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5014	Quartz cuvette cell with screw cap(10mm)/350ul/400ul/600ul/Slit 1/2/3mm	350ul/400ul/600ul	10mm(slit 1/2/3mm)	12.5x12.5x45mm	/



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5015	Quartz cell with screw cap(20mm)/Quartz screw bottle/17ml	17ml	20mm	24*24*62mm	/



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5016	Quartz trace fluorescence cell with stopper(10mm)/1.05ml/ Slit 3mm	1.05ml	20mm	12.5x12.5x45 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5017	1PCS 350ul Quartz fluorescence cuvette cell with PTFE stopper(1mm)	350ul	1mm	12.5x3.5x45mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5018	Quartz closed cuvette airtight/25mm/8.8ml/two pass light	8.8ml	25mm	12.5*27.5*45 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5019	1PCS 700ul Quartz fluorescence cuvette cell with PTFE stopper(2mm)	700ul	2mm	12.5x4.5x45mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5019-1	Quartz fluorescence closed cuvette cell	1050ul	3mm	12.5x5.5x45 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5020	350ul-1750ul quartz fluorescent closed colorimetric dish/micro four-way light/ultraviolet acid and alkali resistance	350ul-1750ul	10mmslit 1/2/3/4/5mm	12.5x12.5x45 mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5020-1	350ul-1750ul glass micron cuvette with stopper	350ul-1750ul	10mm	12.5x12.5x45mm	/



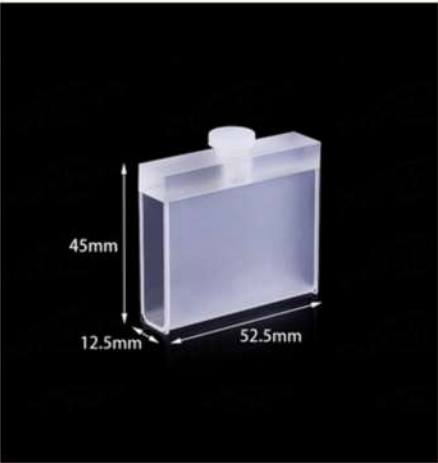
Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5021	Quartz fluorescence cuvette cell with screw cap(10mm)	3.5ml	10mm	12.5x12.5x58mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5022	350ul Quartz Sealed Cuvette Cell (Path Length 1mm)	350ul	1mm	26x20x5mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5023	50mm Quartz sealed cuvette cell (17.5ml)	17.5ml	50mm	12.5x52.5x45 mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5024	1.75ml Quartz Fluorescent Micro sealed cuvette cell	1750ul	5mm/10mm	12.5x12.5x4.5mm	/



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5025	Quartz fluorescence cuvette cell with screw cap(10mm) for lab/3.5ml	3.5ml	10mm	12.5x12.5x45mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5026	1PCS 5mm quartz closed fluorescent cuvette airtight paired UV quartz band plug	1.75ml	5mm(4 polished sides)	7.5x12.5x55 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5027	Quartz cuvette cell with screw cap(3mm)/1.05ml/Two-way light	1050ul	3mm(2 light ways)	12.5x5.5x53mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5028	Quartz cuvette cell with PTFE stopper(700ul)	700ul	2mm	12.5x4.5x45 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5029	Micro quartz fluorescence cuvette cell with stopper(700ul)	0.7ml	10mm/2 mm	12.5x12.5x45 mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5029-1	Micro quartz cuvette cell closed with stopper(350ul)	350ul	10mm	12.5x12.5x45mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5030	5mm quartz thread colorimetric dish/UV spiral spiral quartz bottle	1.75ml	5mm	12.5*7.5*55mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5031	Quartz cell with screw cap(5mm)	1.75ml	5mm	12.5*7.5*55 mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5031-1	Quartz cell with screw cap(1mm)	0.35ml	1mm	12.5*3.5*55mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5031-2	Micro quartz fluorescence cuvette cell(10mm)	350ul-1.75ml	10mmslit 1/2/3/4/5 mm	12.5*12.5*5 3mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5032	Quartz fluorescence cell with stopper /Tape notch(10mm)/3.5ml	350ul	10mm	12.5x12.5x45 mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5033	1PCS 10mm quartz closed cuvette airtight 1cm paired UV quartz band plug two pass light	3.5ml	10mm(2 polished sides)	12.5x12.5x45mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5034	Quartz closed ultramicro cuvette colorimeter/two-pass light/acid, alkali and organic resistance	350ul-1.75ml	10mm(2 polished sides)	12.5*12.5*45mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5035	Quartz sealed flow cell cuvette	1.3ml	10mm	12.5x12.5x22mm	/



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5036	Quartz cuvette cell with screw cap(10mm)/Four way light/1.75ml/Slit 5mm	1.75ml	10mm(4 polished sides)slit 5mm	12.5x12.5x52mm	/



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5037	Quartz thread trace colorimetric dish/350ul-1.75ml/Two way light/Fully fution technology	350ul/700ul/1.05ml/1.4ml/1.75ml	10mm	12.5*12.5*53mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5038	Quartz sealed fluorescent cuvette with double channel	3.5ml	10mm	12.5*12.5*62mm	200nm-2500nm



SIZE CHART



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5039	Infrared quartz fluorescent closed cuvette with thread cap	3.5ml	10mm	12.5*12.5*57mm	200nm-2500nm



Item no.	Description	Capacity	Path Length	LxWxH	Wavelength Range
AT-BSM-5040	Quartz cuvette with thread cap	110ul	1mm	12.5*3.5*26mm	200nm-2500nm



CUSTOMIZATION DESIGN SERVICES

- Custom path lengths
- Specialized sealing mechanisms
- Flow-through modifications
- Temperature control features
- Multi-cell configurations

CLEANING & MAINTENANCE

Standard Cleaning Protocol:

1. Initial rinse with distilled water
2. Clean with appropriate solvent (ethanol-water 1:1 for organic contaminants)
3. Thorough rinse with distilled water (3x)
4. Air dry upside down on lint-free paper
5. Store in protective case

Important: **Never use alkaline solutions, hydrofluoric acid, or fluoride-containing solutions for cleaning.**



QUALITY ASSURANCE

All TOQUARTZ® Air Free 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.