



TOQUARTZ

Product Catalog

TOQUARTZ®

Quartz Cuvette with Funnel Top

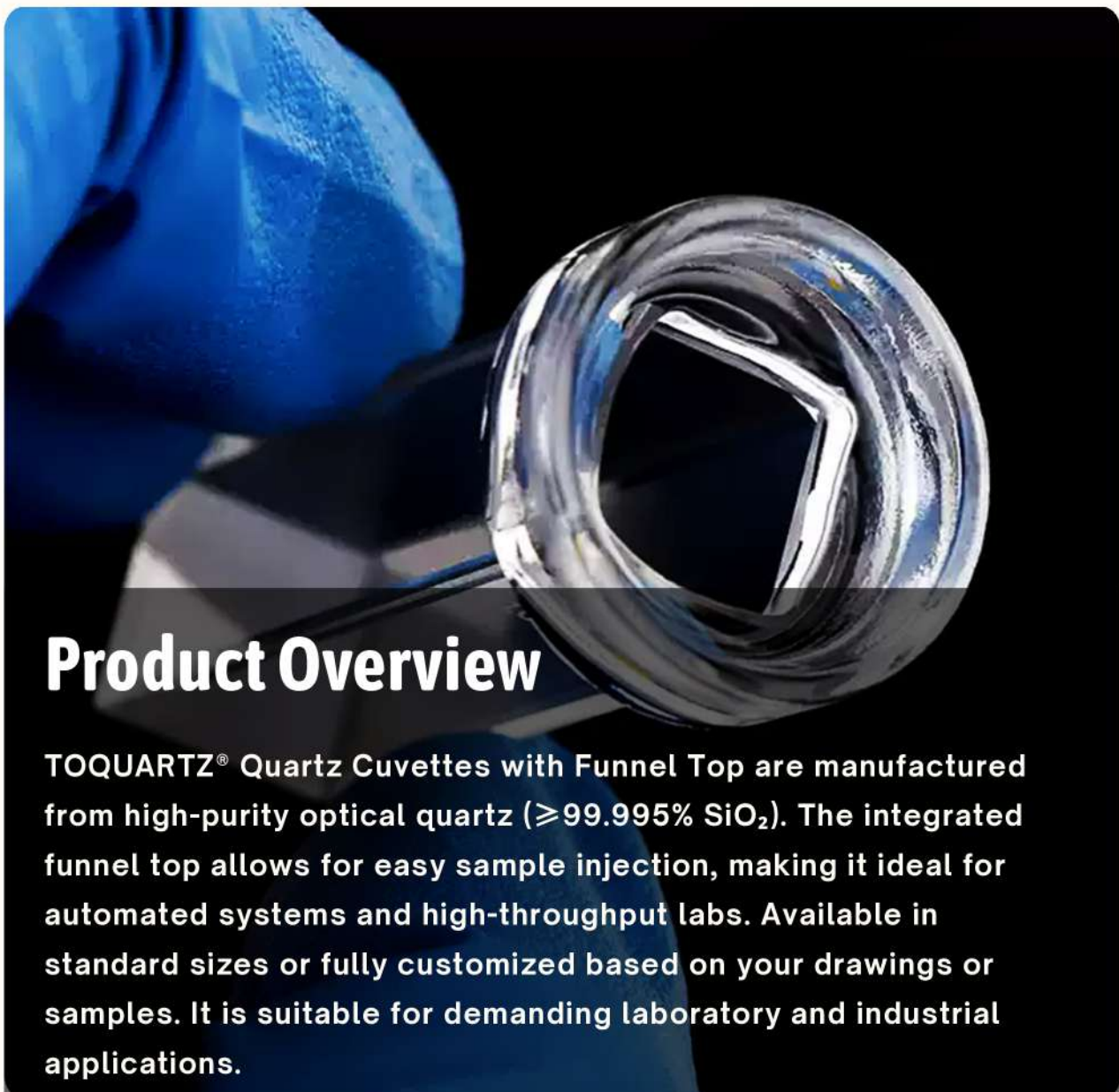
Integrated Engineering & Agile Production
for Demanded Specifications





TOQUARTZ® QUARTZ CUVETTE WITH FUNNEL TOP

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 Cuvette with Funnel Top with fast delivery and consistent quality.



Product Overview

TOQUARTZ® Quartz Cuvettes with Funnel Top are manufactured from high-purity optical quartz ($\geq 99.995\% \text{SiO}_2$). The integrated funnel top allows for easy sample injection, making it ideal for automated systems and high-throughput labs. Available in standard sizes or fully customized based on your drawings or samples. It is suitable for demanding laboratory and industrial applications.

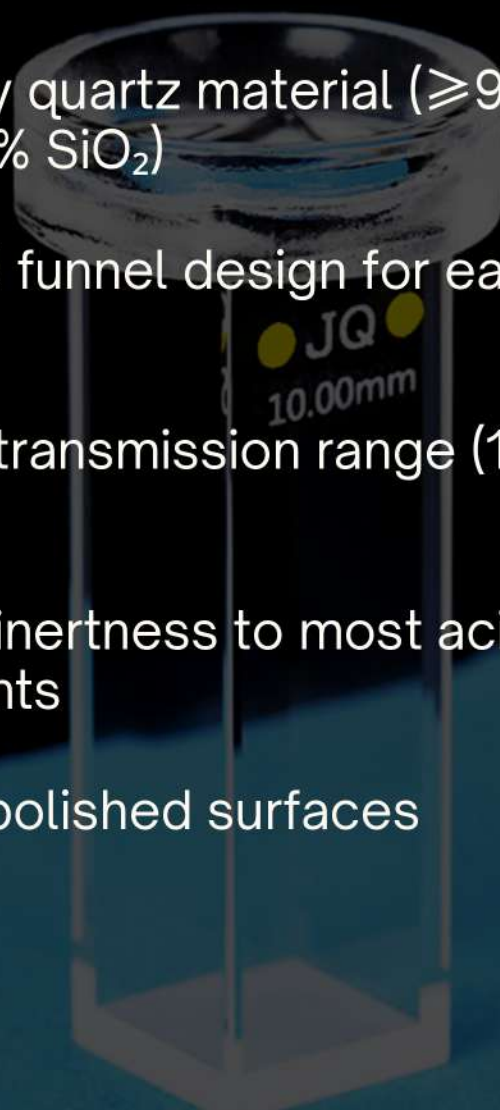


TOQUARTZ® QUARTZ CUVETTE WITH FUNNEL TOP



Key Features

- High-purity quartz material ($\geq 99.98\%$, up to 99.995% SiO_2)
- Integrated funnel design for easy sample loading
- Excellent transmission range (120-4500nm)
- Chemical inertness to most acids, bases, and solvents
- Optically polished surfaces



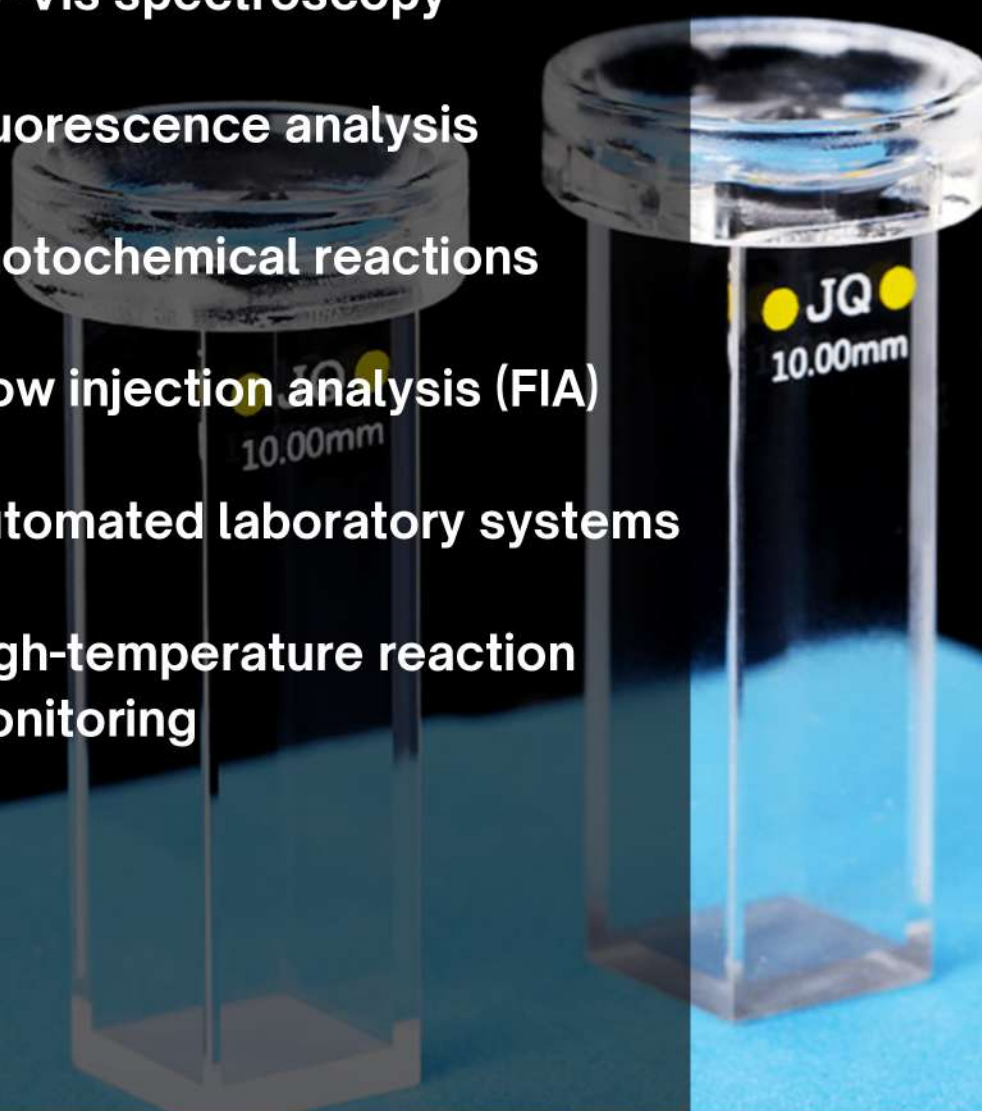


TOQUARTZ® QUARTZ CUVETTE WITH FUNNEL TOP



Applications

- UV-Vis spectroscopy
- Fluorescence analysis
- Photochemical reactions
- Flow injection analysis (FIA)
- Automated laboratory systems
- High-temperature reaction monitoring





TECHNICAL SPECIFICATIONS

Physical Properties

Property	Specification
Material	High-purity fused quartz
Purity	≥99.995% SiO ₂
Density	2.2 g/cm ³
Hardness	Mohs 5.5-6.5
Breaking Modulus	>350 MPa
Maximum Operating Temperature	1200°C
Thermal Expansion Coefficient	5.5 × 10 ⁻⁷ /°C (20-320°C)
Thermal Conductivity	1.3 W/m·K

Chemical Properties

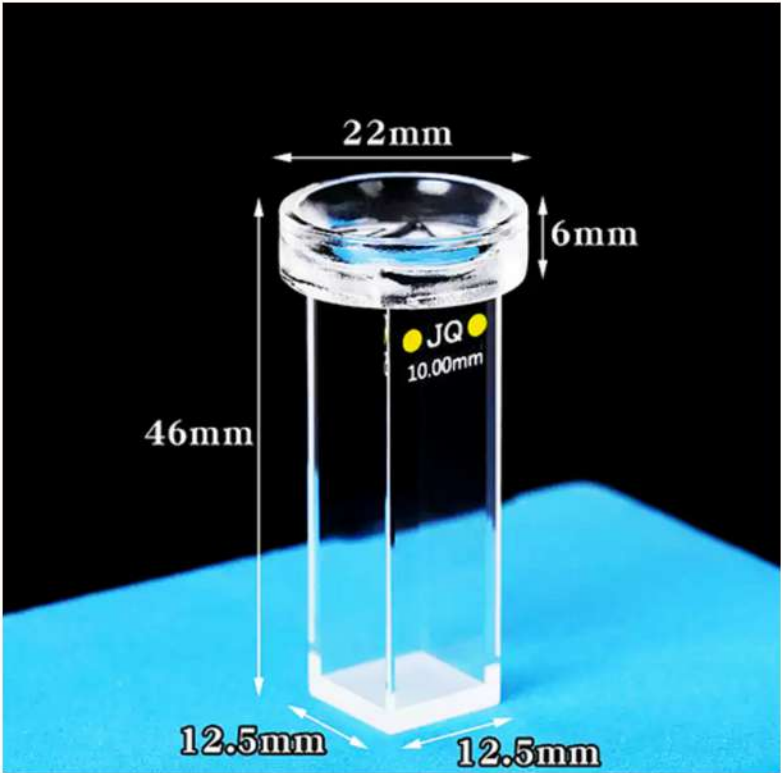
Property	Specification
Chemical Resistance	Excellent to most acids, bases, and solvents
Water Absorption	<0.01%
Acid Resistance	Excellent (except HF)
Alkali Resistance	Good up to 600°C
Solvent Compatibility	Universal

Optical Properties

Property	Specification
Transmission Range	120nm - 4500nm
Refractive Index	1.45-1.46 (at 589.3nm)
UV Cutoff	<170nm
Optical Homogeneity	Excellent
Surface Quality	Optically polished



SIZE CHART



3500µl Quartz Cuvette with Funnel Top

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-6021	3500µl Quartz Cuvette with Funnel Top	10mm	3500µl	12.5x12.5x46 mm



CUSTOM ENGINEERING SERVICES

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

Custom Dimension Options:

- Path Length: From 0.5mm to 100mm
- Funnel Design: Modified angle, diameter, and height
- External Dimensions: Custom sizing for instrument compatibility
- Wall Thickness: Optimized for specific requirements

Special Features Available:

- Flow-through ports
- Threaded caps or stoppers
- Graduated markings
- Custom optical window positioning
- Multiple optical windows

Customization Process:

1. Submit technical drawings or specifications
2. Receive engineering feedback within 48 hours
3. Approve final design and receive quotation
4. Receive prototype samples (for volume orders)
5. Production and quality verification



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.