



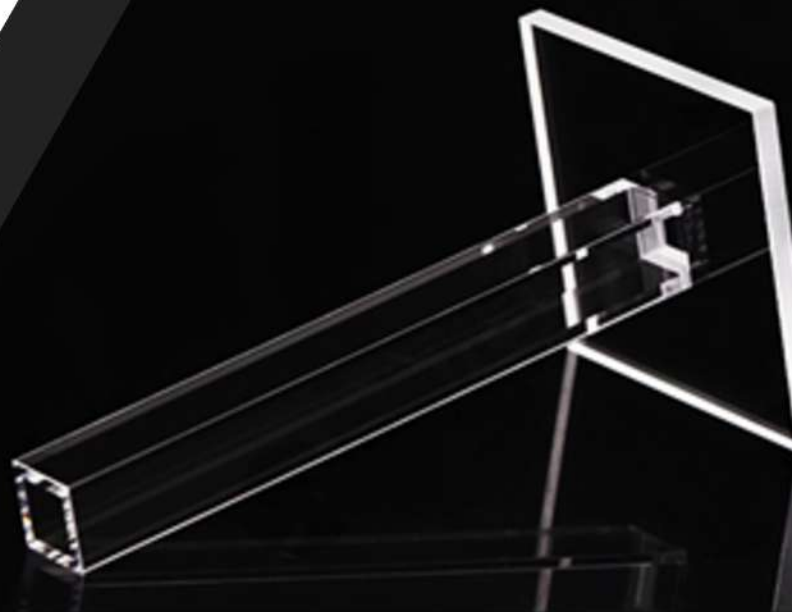
TOQUARTZ

Product Catalog

TOQUARTZ®

Four-Sided Optical Quartz Flow Cell Fluorescence Cuvette

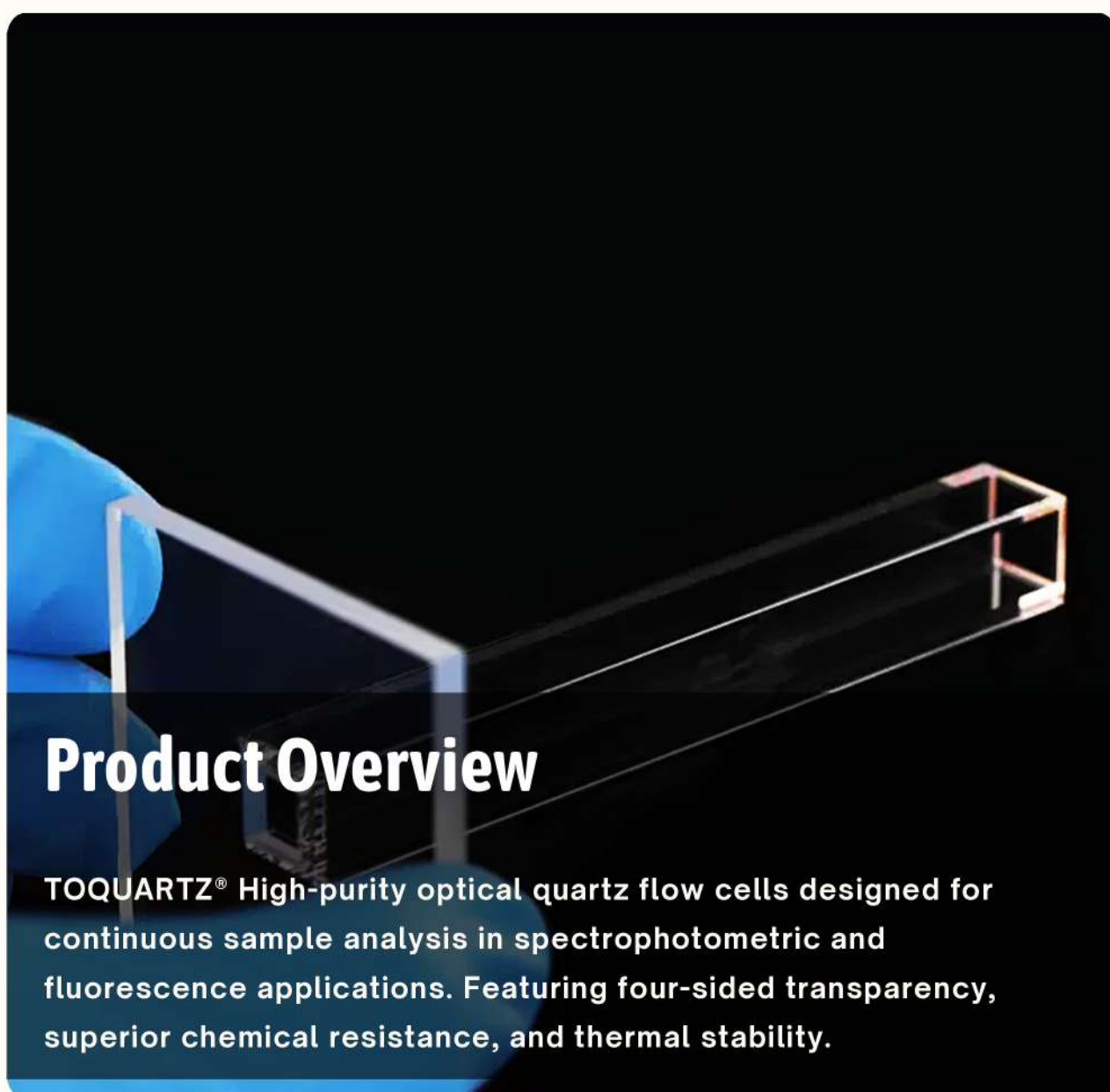
Integrated Engineering & Agile Production
for Demanded Specifications





TOQUARTZ® FOUR-SIDED OPTICAL QUARTZ FLOW CELL FLUORESCENCE CUVETTE

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® Four-Sided Optical Quartz Flow Cell Fluorescence Cuvette with fast delivery and consistent quality.





TOQUARTZ® FOUR-SIDED OPTICAL QUARTZ FLOW CELL FLUORESCENCE CUVETTE



Key Features

- Four-sided optical transparency for multi-angle detection
- Bubble-free and streak-free optical windows
- Various inlet/outlet connection options (Luer, threaded, custom)
- Uniform wall thickness for consistent optical path
- Low thermal expansion coefficient ($5.5 \times 10^{-7} / ^\circ\text{C}$)

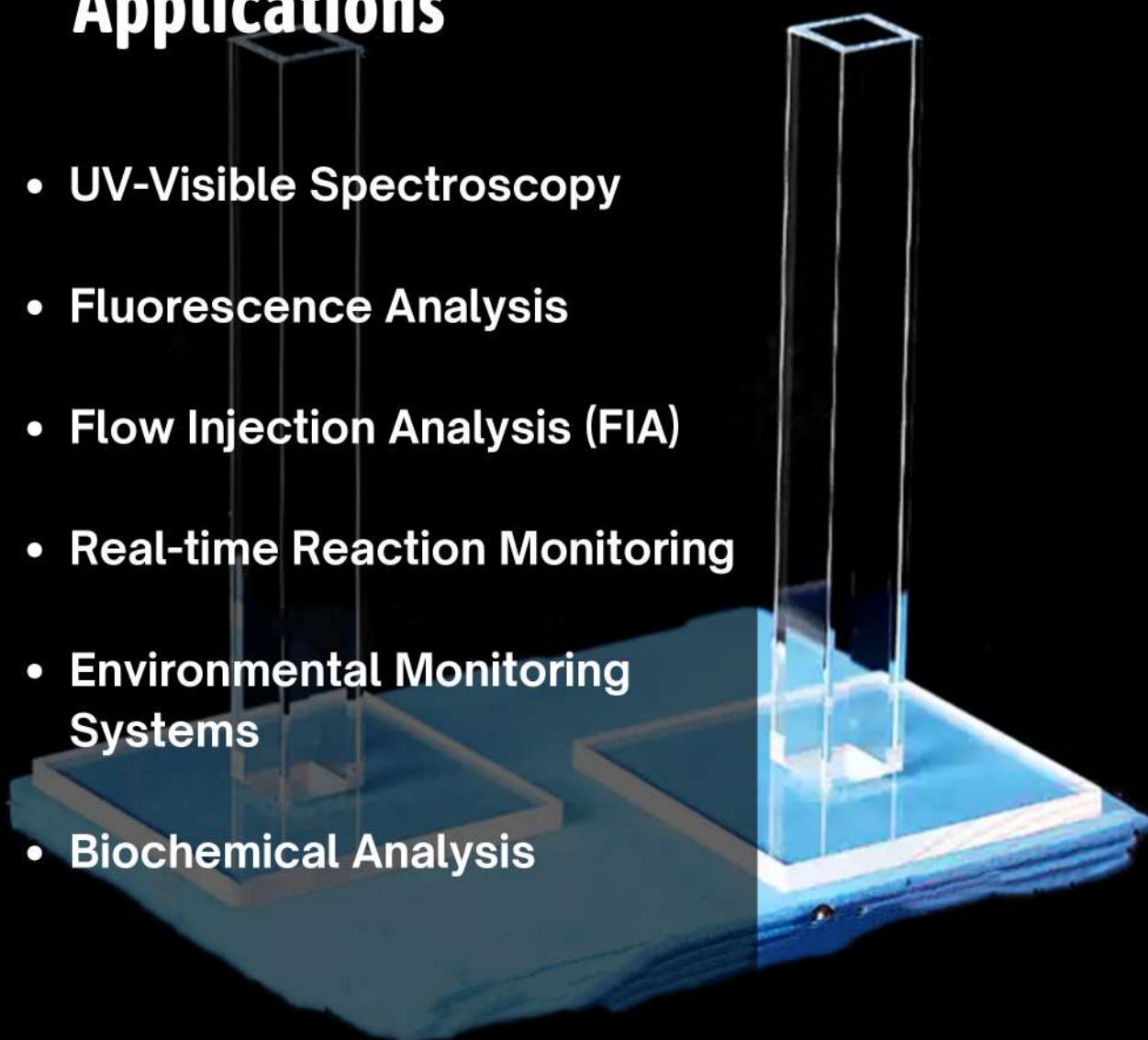


TOQUARTZ® FOUR-SIDED OPTICAL QUARTZ FLOW CELL FLUORESCENCE CUVETTE



Applications

- UV-Visible Spectroscopy
- Fluorescence Analysis
- Flow Injection Analysis (FIA)
- Real-time Reaction Monitoring
- Environmental Monitoring Systems
- Biochemical Analysis





TECHNICAL SPECIFICATIONS

Physical Properties

- Material: High-purity fused quartz
- Purity: $\geq 99.98\%$, up to $99.995\% \text{ SiO}_2$
- Density: 2.2 g/cm^3
- Hardness: 5.5-6.5 Mohs
- Tensile Strength: 48-54 MPa
- Thermal Expansion: $5.5 \times 10^{-7}/^\circ\text{C}$
- Max Operating Temp: 1200°C

Chemical Properties

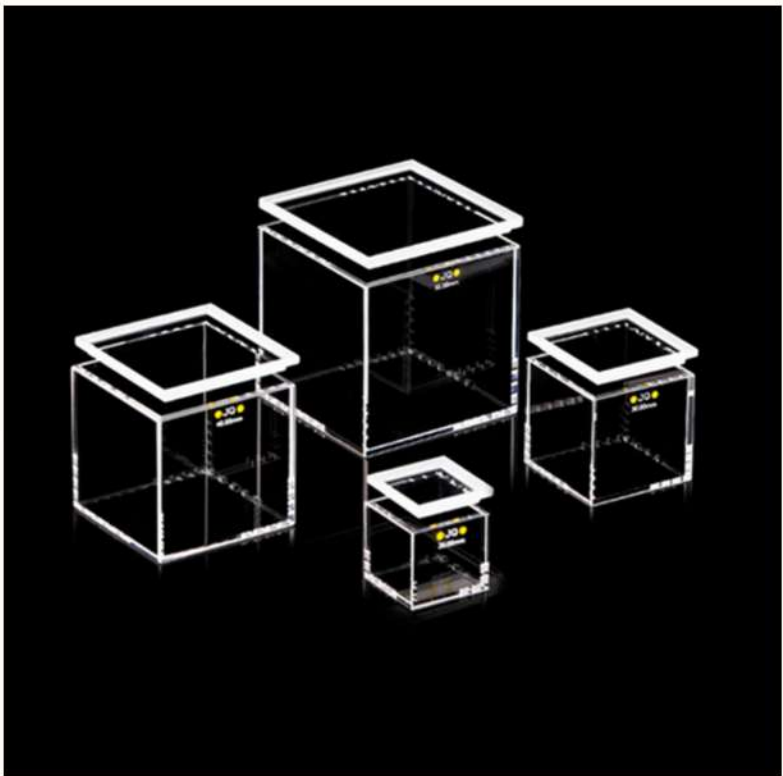
- Chemical Composition: SiO_2 ($\geq 99.98\%$)
- Impurity Levels: Na, K, Li, Fe, Al $< 10 \text{ ppm}$
- Chemical Resistance: Excellent to most acids, bases, and organic solvents
- pH Resistance: 1-14
- Water Absorption: Negligible ($< 0.01\%$)

Optical Properties

- Transmission Range: 190-2500nm
- UV Cutoff: $< 190\text{nm}$
- Transmission at 220nm: $> 80\%$ (10mm path)
- Transmission at 260nm: $> 90\%$ (10mm path)
- Refractive Index: 1.458 at 546nm
- Surface Quality: 80/50 scratch/dig
- Flatness: $\lambda/10$



SIZE CHART



Four-Sided Optical Quartz Flow Cell Fluorescence Cuvette

| Model | Description | Windows | Outline Dimension | Outline Dimension |
|-------------|--|---------|-------------------|-------------------|
| AT-BSM-6023 | Four-Sided Optical Quartz Flow Cell Fluorescence Cuvette | 10 | 40x40x83mm | 24x24x22mm |



CUSTOM ENGINEERING SERVICES

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

- Custom dimensions and geometries
- Specialized connections
- Integration features for specific instruments
- Application-specific modifications



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.