



# TOQUARTZ

## Product Catalog

# TOQUARTZ®

## Quartz Flow Cell for ZETA Potential Analyzer

Integrated Engineering & Agile Production  
**for Demanded Specifications**






TOQUARTZ®

# QUARTZ FLOW CELL FOR ZETA POTENTIAL ANALYZER

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 Flow Cell for ZETA Potential Analyzer with fast delivery and consistent quality.

## Product Overview



TOQUARTZ® Quartz Flow Cell for ZETA Potential Analyzer is designed for laboratories and equipment manufacturers requiring precise zeta potential and UV-Vis spectroscopy measurements. With a dual pathlength of 1 mm and 5 mm and an internal volume of ~130  $\mu\text{L}$ , it ensures stable and reproducible results in small-volume fluid analysis. Manufactured from high-purity Japanese quartz, this flow cell provides broad transmission from 190 to 2500 nm, excellent thermal stability, and resistance to acids, alkalis, and solvents. It is suitable for integration with zeta potential analyzers, HPLC/SEC systems, and research instruments where accuracy and durability are essential.

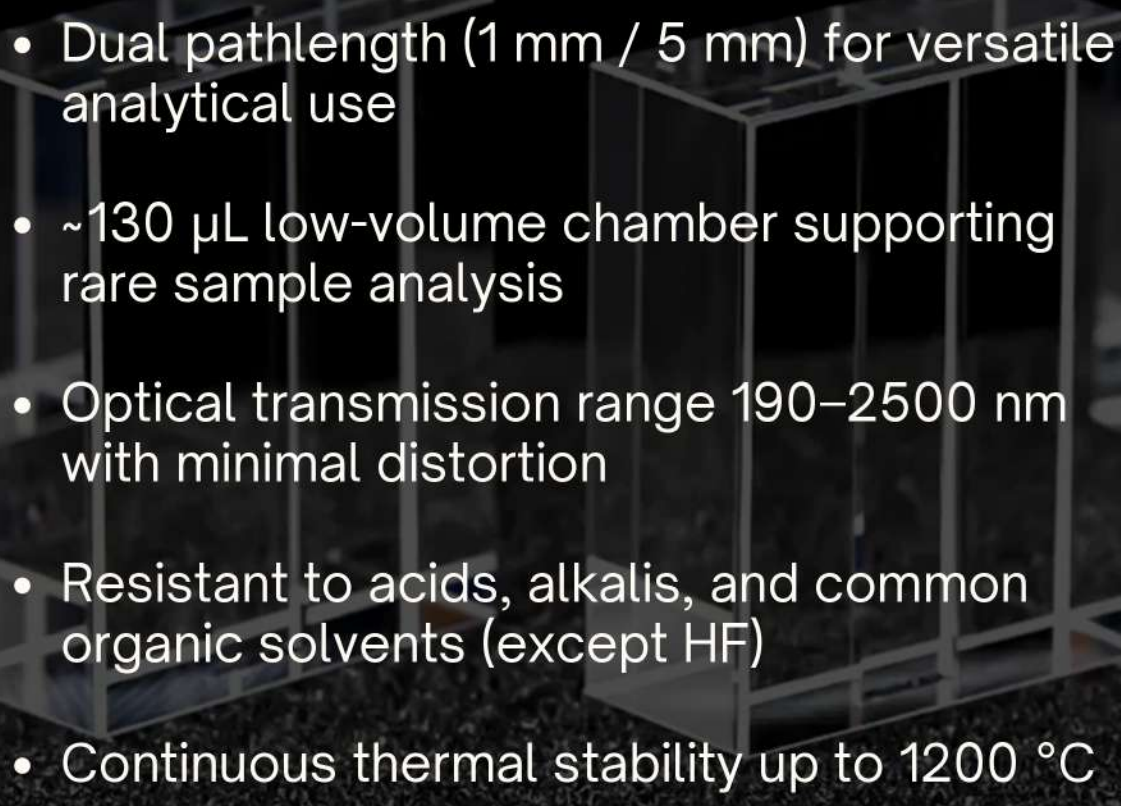


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## Key Features

- 
- Dual pathlength (1 mm / 5 mm) for versatile analytical use
  - ~130  $\mu\text{L}$  low-volume chamber supporting rare sample analysis
  - Optical transmission range 190–2500 nm with minimal distortion
  - Resistant to acids, alkalis, and common organic solvents (except HF)
  - Continuous thermal stability up to 1200 °C
  - Molded transparent quartz walls with seamless clarity





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## Applications

- Nanoparticle characterization
- Protein stability testing
- Biopharmaceutical quality control
- Inline colloid and emulsion monitoring



# TECHNICAL SPECIFICATIONS

## Physical Properties

- Density: 2.2 g/cm<sup>3</sup>
- Fracture Modulus:  $\geq 350$  MPa
- Mohs Hardness: 7

## Thermal Properties

- Operating Temperature:  $\leq 1200$  °C continuous use
- Thermal Conductivity: 120–160 W/m·K
- Thermal Expansion:  $\leq 0.55 \times 10^{-6}/K$

## Chemical Properties

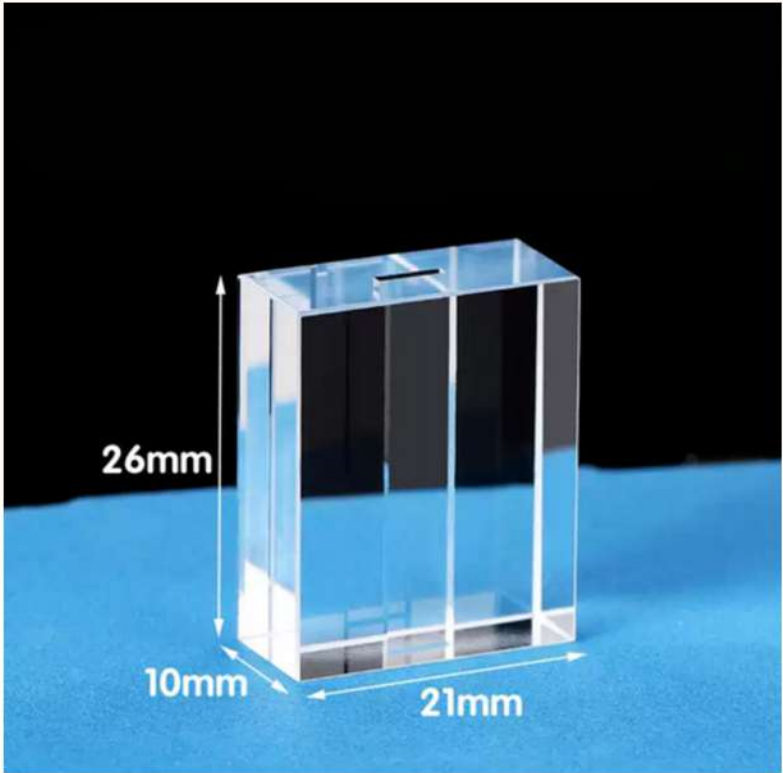
- Composition: SiO<sub>2</sub>  $\geq 99.995\%$
- Resistant to acids, alkalis, solvents (except hydrofluoric acid)
- Surface Roughness:  $< 5$  nm

## Optical Properties

- Transmission Range: 190–2500 nm
- Refractive Index: 1.46
- Optical Deviation:  $\leq 0.3\%$



# SIZE CHART



130µl Quartz Flow Cell for ZETA Potential Analyzer

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-8041	130µl Quartz Flow Cell for ZETA Potential Analyzer	1mm/5mm	130µl	21*10*26mm



## CUSTOM ENGINEERING SERVICES

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

- Pathlength and chamber volume adaptation to specific analytical needs
- Optical window geometry and surface finish modification
- Material grade selection and optional surface treatments
- Prototype design and drawing review for specialized systems





# 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.*