



TOQUARTZ
Tech Specifications

TOQUARTZ®

Black UV Quartz

Cuvette

Product Catalog

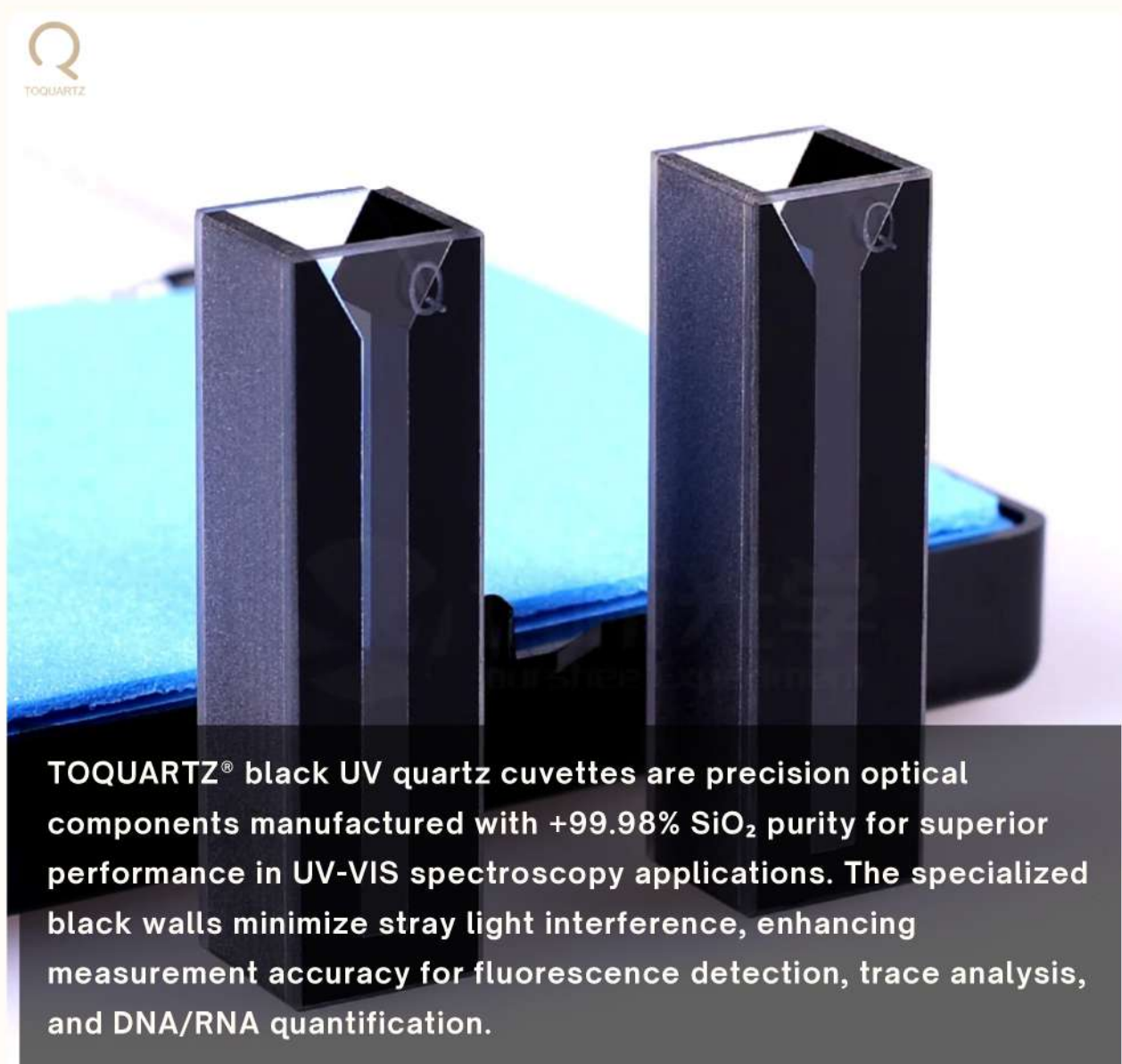
Integrated Engineering & Agile Production
for Demanded Specifications



TOQUARTZ® BLACK UV QUARTZ CUVETTE

High Precision JGS1 Sample Cell for UV-Vis & IR Analysis

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 black quartz cuvette with fast delivery and consistent quality.



TOQUARTZ® BLACK UV QUARTZ CUVETTE



Key Features

- **High-Purity Material:** +99.98% SiO₂ quartz construction
- **Optimal UV Transmission:** 120-4500nm range with no absorption peaks
- **Superior Stray Light Reduction:** Black walls reduce stray light by up to 95%
- **Chemical Resistance:** Compatible with most acids, bases, and organic solvents
- **Thermal Stability:** Withstands temperatures up to 1100°C
- **Customization Options:** Various path lengths, volumes, and designs available



TOQUARTZ® BLACK UV QUARTZ CUVETTE



Applications

- Fluorescence spectroscopy
- DNA/RNA quantification
- Protein analysis
- Trace element detection
- Environmental contaminant analysis
- Pharmaceutical quality control
- Research and academic laboratories
- Analytical instrument integration



TECHNICAL SPECIFICATIONS

| Parameter | Standard Specification | Custom Options |
|---------------------|--|--|
| Material | High-purity quartz (+99.98% SiO ₂) | - |
| Path Length | 10mm | 1mm, 2mm, 5mm, 20mm, 30mm, 50mm, 100mm |
| Outer Dimensions | 12.5 × 12.5 × 45mm | Custom per requirement |
| Surface Finish | Optical polishing on windows | Custom polishing levels |
| Thermal Resistance | Up to 1100°C | - |
| Chemical Resistance | Resistant to most acids, bases, and solvents | - |
| Lid Options | PTFE stoppers, screw caps | Custom lid designs |



SIZE CHART



1ml Black Quartz Cuvette JGS1 Micro Sample Cell with Lid

| Model | Description | Wave length | Path Length | Volume | Temperature | Outline Dimension |
|------------|--|-------------|-------------|--------|-------------|-------------------|
| AT-BSM-005 | 1ml Black Quartz Cuvette JGS1 Micro Sample Cell with Lid | 200-2500nm | 10mm | 1.05ml | 100°C | 12.5x12.5x45 mm |



SIZE CHART



350µl Black Quartz Cuvette JGS1 Micro Sample Cell with Lid

| Model | Description | Wavele ngth | PathLen gth | Volume | Temperature | Outline Dimension |
|------------|--|----------------|----------------|--------|-------------|----------------------|
| AT-BSM-013 | 350µl Black Quartz Cuvette JGS1 Micro Sample Cell with Lid | 200nm-2500nm | 10mm | 350µl | 100°C | 12.5x12.5x45 mm |



SIZE CHART



100µl Black Quartz Cuvette for Protein Determination

| Model | Description | Wavele ngth | PathLen gth | Volume | Temperature | Outline Dimension |
|------------|--|----------------|----------------|--------|-------------|----------------------|
| AT-BSM-047 | 100µl Black Quartz Cuvette for Protein Determination | 200nm-2500nm | 10mm | 100µl | 100°C | 12.5x12.5x25 mm |



SIZE CHART



1.4ml Black Quartz Cuvette JGS1 Micro Sample Cell with Lid

| Model | Description | Wavele ngth | PathLen gth | Volume | Temperature | Outline Dimension |
|------------|--|----------------|----------------|--------|-------------|----------------------|
| AT-BSM-049 | 1.4ml Black Quartz Cuvette JGS1 Micro Sample Cell with Lid | 200nm-2500nm | 10mm | 1.4ml | 100°C | 12.5x12.5x45 mm |



SIZE CHART



1.75ml Black Quartz Cuvette JGS1 Micro Sample Cell with Lid

| Model | Description | Wavele ngth | PathLen gth | Volume | Temperature | Outline Dimension |
|------------|---|----------------|----------------|--------|-------------|----------------------|
| AT-BSM-050 | 1.75ml Black Quartz Cuvette JGS1 Micro Sample Cell with Lid | 200nm-2500nm | 10mm | 1.75ml | 100°C | 12.5x12.5x45 mm |



SIZE CHART



Customizable Micro Black Quartz Cuvette

| Model | Description | Wavele ngth | PathLen gth | Volume | Temperature | Outline Dimension |
|------------|---|----------------|----------------|--------|-------------|----------------------|
| AT-BSM-053 | Customizable Micro Black Quartz Cuvette | 200nm-2500nm | 10mm | 100µl | 100°C | 12.5x12.5x8 mm |



CUSTOMIZATION SERVICES

TOQUARTZ® offers comprehensive customization services for black UV quartz cuvettes, including:

- Custom path lengths and volumes
- Flow-through designs
- Multiple optical path configurations
- Specialized surface treatments
- Integration-ready designs for OEM applications



TECHNICAL SUPPORT

TOQUARTZ® engineering team provides comprehensive support including:

- Application assistance
- Drawing help for custom designs
- Material recommendations
- Compatibility verification with existing equipment



QUALITY ASSURANCE

All TOQUARTZ® black UV quartz cuvette undergo rigorous quality control to ensure consistent performance in demanding applications.:

- Dimensional verification
- Optical transmission testing
- Surface quality inspection
- Material purity confirmation

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.