

TOQUARTZ

Tech Specifications

TOQUARTZ® Triple Neck Round Bottom Quartz Flask Product Catalog

Integrated Engineering & Agile Production

for Demanded Specifications



TOQUARTZ® TRIPLE NECK ROUND BOTTOM QUARTZ FLASK

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® Triple Neck Round Bottom Quartz Flask with fast delivery and consistent quality.



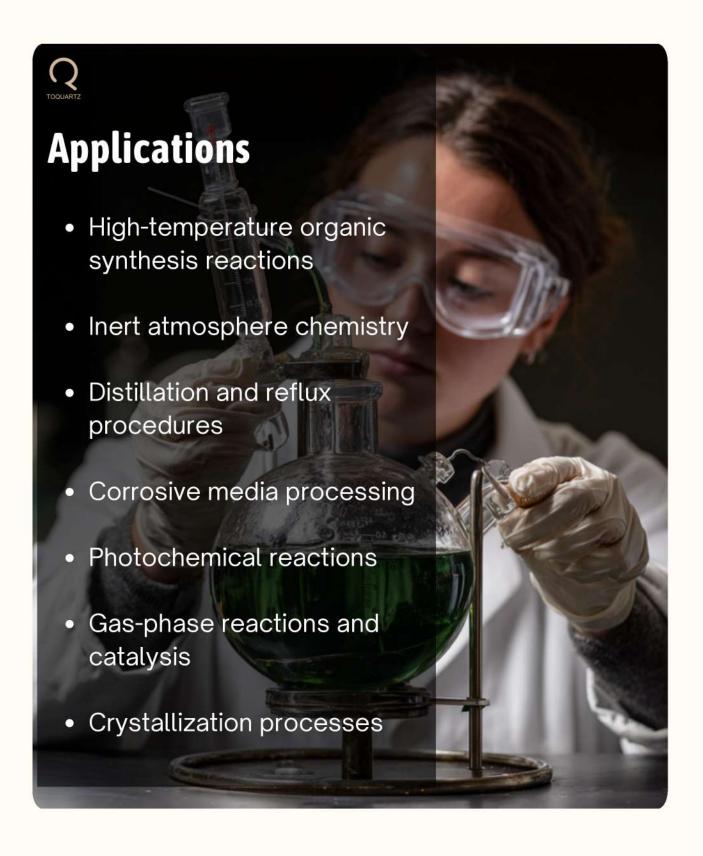
TOQUARTZ® TRIPLE NECK ROUND BOTTOM QUARTZ FLASK



Key Features

- High-Purity Material: 99.99% SiO₂ content for minimal contamination
- Superior Temperature Resistance: Withstands continuous use up to 1200°C
- Excellent Chemical Durability: Resistant to most acids, bases, and corrosive media
- Precision Ground Joints: Standard 24/29 ground joints for universal compatibility
- Exceptional Thermal Shock Resistance: Low coefficient of thermal expansion $(5.5 \times 10^{-7})^{\circ}$ C)
- High Optical Transparency: Excellent for monitoring reaction progress

TOQUARTZ® TRIPLE NECK ROUND BOTTOM QUARTZ FLASK





TECHNICAL SPECIFICATIONS

Physical Properties:

- Density: 2.2 g/cm³
- Hardness (Mohs): 5.5 6.5
- Tensile Strength: 48-51 MPa
- Compressive Strength: 1100-1600 MPa
- Thermal Expansion Coefficient: 5.5 x 10⁻⁷/°C
- Thermal Conductivity: 1.4 W/m·K
- Maximum Operating Temperature: 1200°C
- Softening Point: ~1730°C

Chemical Properties

- SiO₂ Content: ≥99.99%
- Acid Resistance: Excellent (except HF)
- Alkali Resistance: up to 1200°C
- · Water Absorption: Nil
- Chemical Inertness: Inert to most chemicals and reagents
- Trace Element Impurities: <10 ppm total



SIZE CHART

Model	Capacity (ml)	Ground Joint Size	Diameter × Height (mm)	SiO₂ Content (%)
AT-SY-SP1017	50	24/29	51*85	99.99
AT-SY-SP1018	100	24/29	64*103	99.99
AT-SY-SP1019	150	24/29	75*121	99.99
AT-SY-SP1020	250	24/29	85*130	99.99
AT-SY-SP1021	500	24/29	105*160	99.99
AT-SY-SP1022	1000	24/29	131*187	99.99
AT-SY-SP1023	2000	24/29	166*230	99.99



CUSTOMIZATION OPTIONS

TOQUARTZ offers comprehensive customization services for triple neck round bottom quartz flasks:

- Custom Neck Configurations: Alternative angles, additional necks, specialized positioning
- Alternative Joint Sizes: 14/20, 19/22, 29/32, 34/45, or custom specifications
- Custom Capacities: Non-standard volumes to meet specific requirements
- Specialized Features: Side arms, sampling ports, thermowell tubes, fritted disks



USAGE GUIDELINES

- Maximum Fill Level: Fill to no more than 2/3 capacity during reactions
- Heating: Use heating mantles rather than direct flame for even heat distribution
- Support: Always secure with appropriate clamps and supports
- Cleaning: Clean with appropriate solvents followed by thorough rinsing with deionized water
- Storage: Store in dedicated cabinets using flask stands to prevent contact damage



ABOUTTOQUARTZ®

TOQUARTZ® is a specialized manufacturer of high-quality quartz glass products for industrial, laboratory, and optical applications. Our factorydirect approach eliminates intermediaries, providing cost-effective solutions with responsive technical support. We welcome small batch orders and offer 24-hour shipping for standard items.

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.