



TOQUARTZ
Tech Specifications

TOQUARTZ®

4-Neck

Florence Quartz Flask Product Catalog

Integrated Engineering & Agile Production
for Demanded Specifications



TOQUARTZ® 4-NECK FLORENCE 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® 4-Neck Florence Quartz Flask with fast delivery and consistent quality.



Product Overview

500ml

TOQUARTZ® High-purity (99.99% SiO₂) quartz flask with four necks and round bottom designed for laboratory chemical reactions, organic synthesis, and material preparation processes. Features excellent thermal stability up to 1200°C, superior chemical resistance, and precision ground glass joints for airtight connections.

TOQUARTZ® 4-NECK FLORENCE QUARTZ FLASK



Key Features

- **High Temperature Resistance:** Operating temperature up to 1200°C with excellent thermal shock resistance
- **Chemical Stability:** Excellent resistance to acids, bases, molten salts, and fluorinated gases
- **Optical Clarity:** Transparent to visible and UV light for reaction monitoring
- **Precision Ground Joints:** Standard ground glass joints for secure, airtight connections
- **Multi-neck Configuration:** Four strategically positioned necks for complex experimental setups
- **Custom Engineering Available:** Tailored designs to meet specific requirements

TOQUARTZ® 4-NECK FLORENCE QUARTZ FLASK



Applications

- Complex chemical synthesis requiring multiple access points
- High-temperature reactions under controlled atmosphere
- Vacuum or inert gas experiments
- Material science and catalyst development
- Educational and research laboratory settings





TECHNICAL SPECIFICATIONS

Physical Properties:

- Density: 2.2 g/cm³
- Fracture Modulus: ≥ 350 MPa
- Thermal Conductivity: 120-160 W/m·K
- Thermal Expansion Coefficient: $5.5 \times 10^{-7}/K$
- Maximum Working Temperature: 1200°C

Chemical & Optical Properties

- SiO₂ Content: $\geq 99.99\%$
- Chemical Resistance: Excellent to acids, bases, salts
- Hydrolytic Resistance: Class 1 (USP)
- UV Transmission (254nm): $\geq 80\%$
- Visible Light Transmission: $\geq 90\%$



SIZE CHART

Model	Capacity (ml)	Joint Size	Dimensions (mm)	SiO ₂ Content (%)
AT-SY-SP1024	250	24/19/19/1 4	80*132	99.99
AT-SY-SP1025	500	24/19/19/1 4	106*147	99.99
AT-SY-SP1026	1000	24/19/19/1 4	140*200	99.99
AT-SY-SP1027	2000	24/19/19/1 4	173*242	99.99
AT-SY-SP1028	5000	40/24/24/1 4	235*335	99.99



CUSTOMIZATION OPTIONS

TOQUARTZ offers comprehensive customization services for 4 Neck Round Bottom Quartz Flask:

- Custom joint sizes and configurations
- Modified capacities and dimensions
- Special neck angles and positioning
- Additional necks or features
- Surface treatments and markings



USAGE GUIDELINES

- Always use appropriate support equipment (clamps, stands)
- Heat gradually to prevent thermal shock
- Ensure at least one neck remains open when heating
- Do not exceed recommended temperature limits
- Clean with appropriate solvents and dry thoroughly



ABOUT TOQUARTZ®

TOQUARTZ® is a specialized manufacturer of high-quality quartz glass products for industrial, laboratory, and optical applications. Our factory-direct 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.