



TOQUARTZ  
Tech Specifications

# TOQUARTZ® Quartz Erlenmeyer Flasks Product Catalog

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



# TOQUARTZ® QUARTZ ERLENMEYER FLASKS

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 Erlenmeyer Flasks with fast delivery and consistent quality.



## Product Overview

TOQUARTZ® Quartz Erlenmeyer Flasks are premium laboratory vessels manufactured from 99.99% SiO<sub>2</sub> for applications requiring exceptional thermal stability and chemical resistance.

# TOQUARTZ® QUARTZ ERLLENMEYER FLASKS



## Key Features

- **Temperature resistance up to 1200°C**
- **Superior chemical resistance to acids, bases, and salts**
- **Exceptional optical clarity and UV transmission**
- **Precision ground joints compatible with standard fittings**
- **Available in standard and custom sizes**

# TOQUARTZ® QUARTZ ERLLENMEYER FLASKS



## Applications

- High-temperature chemical reactions
- Acid and base handling
- Inert atmosphere experiments
- High-purity material synthesis
- Photochemical reactions
- Specialty chemical production



# TECHNICAL SPECIFICATIONS

## Physical Properties:

- Material: High-purity quartz glass (99.99% SiO<sub>2</sub>)
- Density: 2.2 g/cm<sup>3</sup>
- Maximum working temperature: 1200°C
- Thermal expansion coefficient:  $\leq 5.5 \times 10^{-7} / \text{K}$
- Thermal conductivity: 120-160 W/m.K
- Mechanical strength: 350 MPa+

## Chemical Properties

- Chemical resistance: Excellent to most acids, bases, and salts
- Water absorption: Negligible
- Gas permeability: Very low
- Corrosion resistance: Superior to most laboratory glassware

## Optical Properties

- Transmission range: 170-2500 nm
- Refractive index: 1.46 (at 589.3 nm)
- UV transmission: >80% (at 254 nm)
- IR transmission: >90% (at 1000-2500 nm)



# SIZE CHART

Model	Capacity (ml)	Joint Size	Dimensions (mm)	SiO <sub>2</sub> Purity (%)
AT-SY-SP1029	50	19/24	/	99.99
AT-SY-SP1030	100	19/24	/	99.99
AT-SY-SP1031	150	19/24	/	99.99
AT-SY-SP1032	250	24	80*146	99.99
AT-SY-SP1033	500	24	98*185	99.99
AT-SY-SP1034	1000	24/29	/	99.99
AT-SY-SP1035	2000	29	/	99.99



## CUSTOMIZATION OPTIONS

### **TOQUARTZ offers comprehensive customization services for Quartz Erlenmeyer Flasks:**

- Non-standard capacities
- Custom dimensions
- Specialized features (side arms, custom joints, etc.)
- Modified designs for specific applications



## QUALITY ASSURANCE

**Every TOQUARTZ Quartz Erlenmeyer Flask  
undergoes rigorous inspection for:**

- Dimensional accuracy
- Material purity
- Thermal resistance
- Surface quality
- Joint precision



# 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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*For technical specifications, custom requirements, or pricing information, please contact our sales team.*