

# TOQUARTZ Tech Specifications

# TOQUARTZ® Threaded Quartz Tubes Product Catalog

Integrated Engineering & Agile Production

for Demanded Specifications



# TOQUARTZ® THREADED QUARTZ TUBES

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® threaded quartz tubes with fast delivery and consistent quality.



## TOQUARTZ® THREADED QUARTZ TUBES



## **Key Features**

- Superior Thermal Stability: Withstands continuous temperatures up to 1250°C with minimal thermal expansion
- Chemical Resistance: Highly resistant to acids, alkalis, and corrosive gases
- Precision Threading: Machine-tooled threads with ±0.1mm tolerance for secure, leak-proof connections
- **High Purity:** 99.99% SiO<sub>2</sub> content ensures minimal contamination in sensitive applications
- **Electrical Insulation:** High dielectric strength for applications requiring electrical isolation

## TOQUARTZ® THREADED QUARTZ TUBES





## TECHNICAL SPECIFICATIONS

#### **Material Properties:**

- Material Composition: SiO<sub>2</sub> ≥ 99.99%
- Density: 2.2 g/cm³
- Working Temperature: 1250°C (continuous)
- Softening Point: 1730°C
- Thermal Expansion Coefficient: 5.5 × 10<sup>-7</sup>/°C (20-1000°C)
- Thermal Conductivity: 1.4 W/m·K (25°C)
- Mohs Hardness: 5.3-6.5

# **CUSTOMIZATION OPTIONS**

- Custom thread specifications (metric, imperial, NPT, custom pitch and diameter)
- Specialized dimensions (ID/OD from 3mm to 300mm, custom lengths up to 3000mm)
- Various end configurations (single-threaded, double-threaded, mixed male/female)
- Surface treatments (fire-polished, precision ground, frosted)
- Material options (clear fused quartz, UV-transmitting, IR-blocking, opal quartz)



#### **CUSTOMIZATION MANUFACTURING**

# TOQUARTZ offers comprehensive custom manufacturing services:

- Technical drawing assistance
- Material selection consultation
- Prototype development
- Quality inspection and testing

Our engineering team works directly with customers to develop solutions for specific requirements, from prototyping through volume production.



# 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.