

TOQUARTZ® Tech Specifications

Quartz Glass Reduction Tube Product Catalog

Integrated Engineering & Agile Production

for Demanded Specifications

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TOQUARTZ® QUARTZ GLASS REDUCTION TUBE

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® TOQUARTZ® Quartz Glass Reduction Tube with fast delivery and consistent quality.



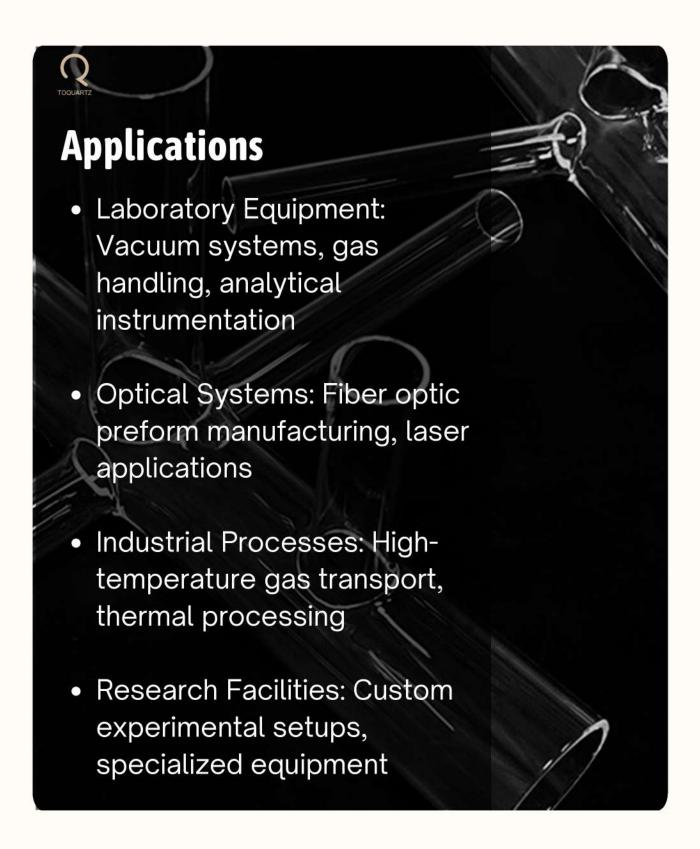
TOQUARTZ® QUARTZ GLASS REDUCTION TUBE



Key Features

- High Purity: 99.995% SiO₂ content for minimal contamination
- Thermal Stability: Withstands continuous operation up to 1200°C
- Precision Manufacturing: Dimensional tolerance of ±0.1mm standard
- Chemical Resistance: Resistant to most acids, bases, and corrosive chemicals
- Customizable: Available in standard sizes or custom configurations
- Optical Clarity: Excellent transmission from UV to IR spectrum

TOQUARTZ® QUARTZ GLASS REDUCTION TUBE





TECHNICAL SPECIFICATIONS

Physical Properties

Material: High-purity fused quartz (99.995% SiO₂)

Maximum Operating Temperature: 1200°C continuous

Thermal Expansion Coefficient: 5.5 × 10⁻⁷ /°C (20-1000°C)

Density: 2.2 g/cm³

Mechanical Strength: Tensile strength 50 MPa

Chemical Properties

- Chemical Resistance: Resistant to most acids, bases, and corrosive chemicals
- Exceptions: Hydrofluoric acid (HF), concentrated phosphoric acid at high temperatures
- Water Absorption: Effectively zero
- Gas Permeability: Impermeable to gases except helium at high temperatures

Optical Properties

• UV Transmission: >90% at 200nm and above

Visible Light Transmission: >93%

• IR Transmission: Excellent up to 3.5µm

Refractive Index: 1.4585 at 587.6nm (20°C)

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CUSTOMIZATION OPTIONS

- Geometry: Multi-diameter transitions, custom angles, specialized shapes
- Surface Finishes: Fire-polished, ground, custom end treatments
- Connections: Ground glass joints, flanges, specialized fittings
- Engineering Support: Technical consultation, CAD design assistance



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.