

TOQUARTZ® Tech Specifications

Quartz Glass Dome Product Catalog

Integrated Engineering & Agile Production

for Demanded Specifications

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TOQUARTZ® QUARTZ GLASS DOME

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 Dome with fast delivery and consistent quality.



Product Overview

TOQUARTZ® High-purity fused silica domes designed for superior UV transmission and thermal stability in demanding industrial applications. Our quartz glass domes provide exceptional performance for solar concentrators, photocatalytic reactors, and UV disinfection systems.

TOQUARTZ® QUARTZ GLASS DOME



Key Features

- Superior UV Transmission: 90-95%+ (UV-A), 80-95%
 (UV-B), 80-90% (UV-C)
- Exceptional Thermal Stability: Operating temperatures up to 1200°C
- High Purity Material: ≥99.995% SiO₂ content
- Precision Manufacturing: Dimensional tolerances down to ±0.05mm
- Optional TiO₂ Coating: For enhanced photocatalytic applications
- Custom Dimensions: Available in diameters from 30mm to 300mm

TOQUARTZ® QUARTZ GLASS DOME





TECHNICAL SPECIFICATIONS

Parameter	Specification	Notes
Material	High-purity fused silica (SiO₂ ≥99.995%)	UV-grade or optical grade available
Diameter Range	30mm - 300mm	Common sizes: 160mm, 290mm
Wall Thickness	1mm - 30mm	Optimized for thermal stability
Dimensional Tolerance	±0.1mm standard (±0.05mm available)	Precision grade for optical applications
Surface Quality	60-40 scratch-dig standard	Higher grades available on request
Temperature Resistance	Up to 1200°C	Exceeds solar concentrator requirements (450°C)
Optional Coatings	TiO₂ photocatalytic coating, AR coating	Inner or outer surface available

CUSTOMIZATION OPTIONS

Our engineering team can customize quartz glass domes to meet your specific requirements:

- Custom Dimensions: Precision manufacturing to your exact specifications
- Surface Treatments: TiO₂ photocatalytic coatings, anti-reflective treatments
- Material Grades: UV-grade, optical-grade, or standard fused silica
- Design Assistance: Technical guidance and drawing 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.