

TOQUARTZ

Tech Specifications



TOQUARTZ® TRANSPARENT QUARTZ LAB DISH

Premium laboratory-grade vessels



TRANSPARENT QUARTZ LAB DISH

Key Features

- Exceptional Thermal Stability: Withstands temperatures up to 1600°C without deformation
- Superior Chemical Resistance: Resistant to most acids, alkalis, and solvents
- Excellent Optical Transparency: ≥90% transmission in UV-Visible spectrum (200-2000nm)
- High Material Purity: 99.99-99.995% SiO₂ content for minimal contamination
- Precision Manufacturing: Tight dimensional tolerances (±0.1mm)
- Superior Electrical Insulation: Excellent dielectric properties
- Low Thermal Expansion: Excellent thermal shock resistance

TRANSPARENT QUARTZ LAB DISH

Applications

- Materials Research: High-temperature sample processing, crystal growth, thermal analysis
- Optical Testing: UV transmission experiments, photochemical reactions, optical measurements
- Chemical Processing: Corrosive chemical handling, highpurity sample preparation
- Laboratory Analysis: Sample containment for hightemperature analytical procedures
- Specialized Industrial Processes: Custom applications requiring thermal stability and chemical resistance

TECHNICAL SPECIFICATIONS



- Material: High-purity fused silica (SiO₂)
- Purity: 99.99-99.995%
- Temperature Resistance: Up to 1600°C (short-term)
- Continuous Operating Temperature: 1100-1200°C
- Thermal Expansion Coefficient: 5.5 x 10^-7/°C
- Optical Transmission: ≥90% (UV-Visible range)
- Surface Finish: Ra < 0.8μm
- Dimensional Tolerance: ±0.1mm standard (±0.05mm available for certain dimensions)
- Chemical Resistance: Resistant to most acids, alkalis, and solvents (except HF and hot phosphoric acid)

CUSTOMIZATION OPTIONS

TOQUARTZ offers extensive customization capabilities to meet your specific requirements:

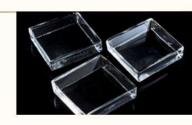
- Specialized Dimensions & Geometries: Custom diameters, depths, wall thicknesses, and shapes
- Surface Modifications: Fire-polishing, mechanical polishing, or sandblasting
- Integrated Features: Pouring spouts, handling tabs, bottom perforations, connection points
- Material Optimization: Higher purity grades or specialized doping for specific properties



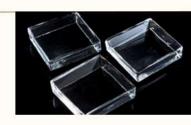
Model	Outer Diameter(mm)	Height(mm)	Wall Thickness(mm)	Si2O's Purity (%)
AT-QTZ- D001	8	4	1-1.8	99.95-99.99
AT-QTZ- D002	10	5.5	1.5-2.5	99.95-99.99
AT-QTZ- D003	15	7	2-3	99.95-99.99
AT-QTZ- D004	20	8	2-4.5	99.95-99.99
AT-QTZ- D005	30	6	2.5	99.95-99.99



Model	Outer Diameter(mm)	Height(mm)	Wall Thickness(mm)	Si2O's Purity (%)
AT-QTZ- D006	50	15	3-5	99.95-99.99
AT-QTZ- D007	85	18	5-7	99.95-99.99
AT-QTZ- D008	100	20	5-7	99.95-99.99
AT-QTZ- D009	120	25	7-10	99.95-99.99
AT-QTZ- D010	180	30	7-10	99.95-99.99
AT-QTZ- D011	260	35	7-10	99.95-99.99



Model	L(mm)	W(mm)	H(mm)	Wall Thickness(mm)	Si2O's Purity (%)
AT-QTZ- F001	30	20	5	2	99.95- 99.99
AT-QTZ- F002	40	40	8	3	99.95- 99.99
AT-QTZ- F003	45	30	10	3.5	99.95- 99.99
AT-QTZ- F004	50	50	12	4	99.95- 99.99
AT-QTZ- F005	70	70	15	4.5	99.95- 99.99
AT-QTZ- F006	100	100	20	4.5	99.95- 99.99



Model	L(mm)	W(mm)	H(mm)	Wall Thickness(mm)	Si2O's Purity (%)
AT-QTZ- F007	150	150	22	5	99.95- 99.99
AT-QTZ- F008	200	100	25	5	99.95- 99.99
AT-QTZ- F009	200	200	13	5	99.95- 99.99
AT-QTZ- F010	300	300	18	6	99.95- 99.99
AT-QTZ- F011	350	200	25	6	99.95- 99.99
AT-QTZ- F012	400	400	30	7	99.95- 99.99



QUALITY ASSURANCE

Every TOQUARTZ transparent quartz dish undergoes rigorous quality control procedures:

- Material Verification: Composition and purity testing
- Dimensional Inspection: Precision measurement of all critical dimensions
- Optical Quality Assessment: Transmission and clarity verification
- Surface Finish Evaluation: Surface roughness measurement
- Visual Inspection: 100% inspection for defects or imperfections

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.