



# TOQUARTZ

## Tech Specifications

# Quartz Crucible

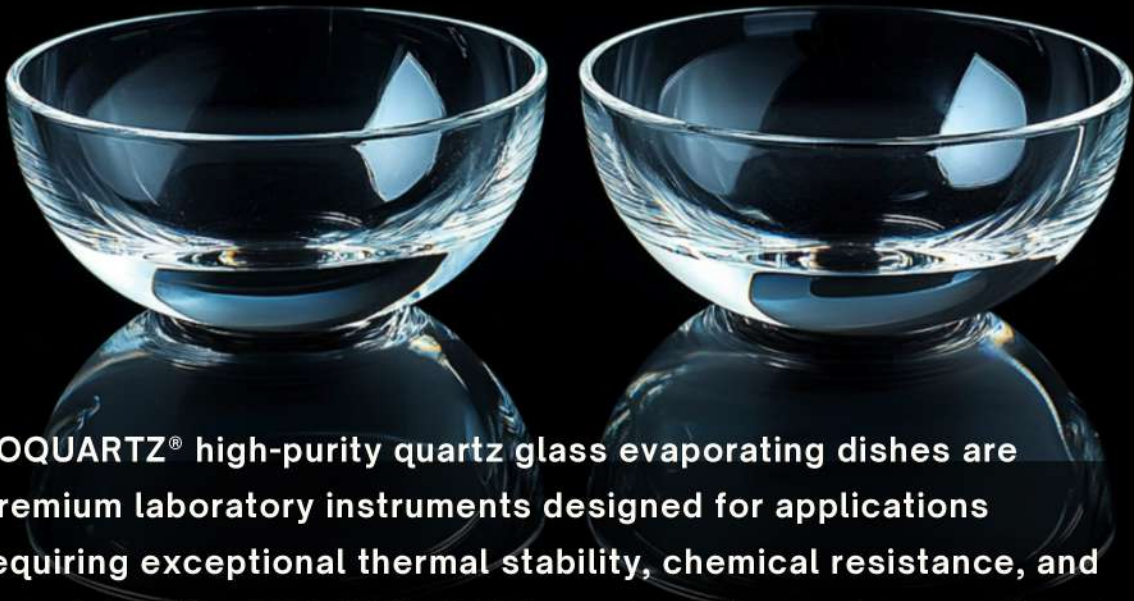
Integrated Engineering & Agile Production  
**for Demanded Specifications**



# TOQUARTZ®

## QUARTZ GLASS EVAPORATING DISH

### Product Overview



TOQUARTZ® high-purity quartz glass evaporating dishes are premium laboratory instruments designed for applications requiring exceptional thermal stability, chemical resistance, and material purity. With 99.99% SiO<sub>2</sub> content, these dishes are ideal for analytical chemistry, materials science, and pharmaceutical research where sample integrity is critical.

# QUARTZ GLASS EVAPORATING DISH

## Key Features

- **Superior Thermal Properties:** Withstands temperatures up to 1450°C with minimal thermal expansion
- **Exceptional Chemical Resistance:** Resistant to most acids (except HF), alkalis, and chemical reagents
- **High Purity Material:** 99.99% SiO<sub>2</sub> purity ensures minimal contamination
- **Thermal Shock Resistant:** Can transition from high temperature to room temperature without cracking
- **Two Bottom Designs:** Available in both round bottom (for even heating) and flat bottom (for stability)
- **Custom Sizing Available:** Bespoke dimensions and specifications upon request



# QUARTZ GLASS EVAPORATING DISH

## Applications



- **Analytical Chemistry:** Sample preparation, trace element analysis, digestion procedures
- **Materials Science:** High-temperature crystallization, phase transformation studies
- **Pharmaceutical Research:** API crystallization, purity-critical sample preparation
- **Chemical Synthesis:** Reactions requiring inert containers and high temperature resistance
- **Educational Laboratories:** Teaching demonstrations and student experiments



# SIZE CHART



## QUARTZ GLASS EVAPORATING DISH

Model	Diameter (mm)	Height (mm)	SiO <sub>2</sub> Purity (%)	Bottom Type
AT-SY-ZF001	60	30	99.99	Round
AT-SY-ZF002	80	40	99.99	Round
AT-SY-ZF003	90	45	99.99	Round
AT-SY-ZF004	120	50	99.99	Round
AT-SY-ZF005	150	75	99.99	Round



# SIZE CHART



## QUARTZ GLASS EVAPORATING DISH

Model	Diameter (mm)	Height (mm)	SiO <sub>2</sub> Purity (%)	Bottom Type
AT-SY-ZF006	60	30	99.99	Flat
AT-SY-ZF007	80	45	99.99	Flat
AT-SY-ZF008	90	50	99.99	Flat
AT-SY-ZF009	120	60	99.99	Flat
AT-SY-ZF010	150	75	99.99	Flat



## CUSTOMIZATION OPTIONS

**TOQUARTZ engineering team can develop custom quartz glass evaporating dishes to meet your specific requirements:**

- Non-standard dimensions
- Special designs (spouts, handles, lids, or multi-compartment configurations)
- Material variations (translucent or opaque quartz options)
- Surface treatments for specialized applications

## MATERIAL PROPERTIES

### Physical Properties:

- Density:  $2.21 \text{ g/cm}^3$
- Mohs Hardness: 5.5-6.5 N/mm<sup>2</sup>
- Compressive Strength:  $6000 \text{ N/mm}^2$  (16000 psi)
- Tensile Strength:  $50 \text{ N/mm}^2$
- Bending Strength:  $67 \text{ N/mm}^2$

### Thermal Properties:

- Thermal Expansion Coefficient:  $5.5 \times 10^{-7} / \text{K}$  (at 100-1100°C)
- Thermal Conductivity:  $1.38\text{-}2.68 \text{ W/m}\cdot^\circ\text{C}$  (20-950°C)
- Maximum Operating Temperature: 1450°C





# QUALITY ASSURANCE

**All TOQUARTZ® Quartz Glass Evaporating Dishes undergo rigorous quality control to ensure consistent performance in demanding applications.:**

- Dimensional verification
- Material composition analysis
- Visual inspection for defects
- Thermal shock resistance testing

## Contact Information

Email: [info@toquartz.com](mailto:info@toquartz.com)

Website: [www.toquartz.com](http://www.toquartz.com)

**TOQUARTZ® - Precision Quartz Solutions for Industry and Research**

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