



TOQUARTZ

Tech Specifications

Quartz Crucible

Integrated Engineering & Agile Production
for Demanded Specifications



TOQUARTZ®

OPAQUE FUSED QUARTZ CRUCIBLES

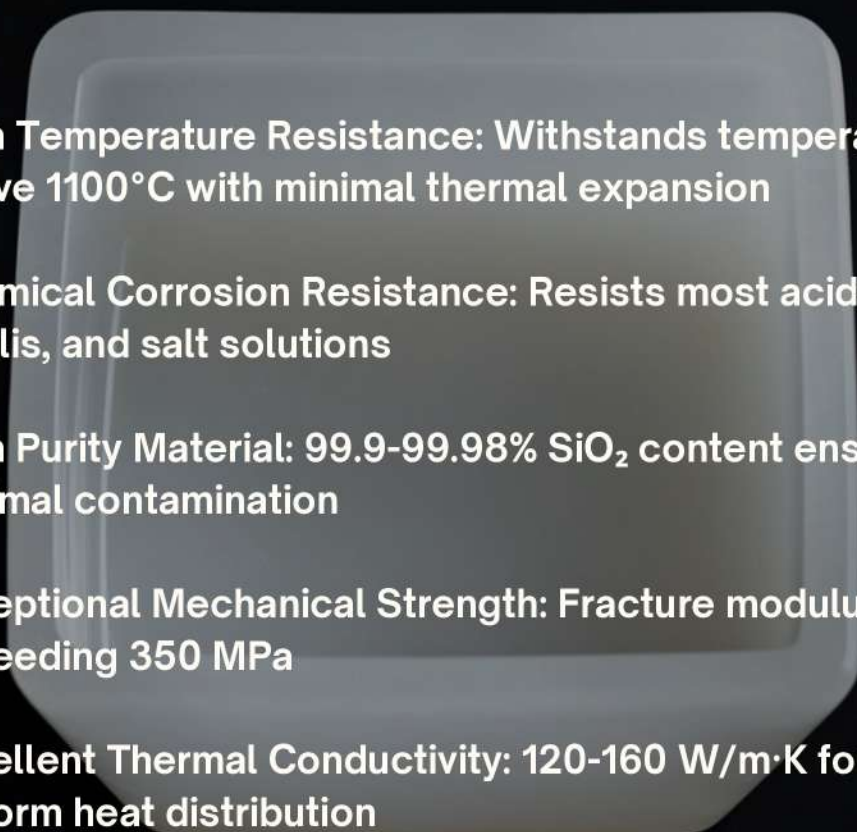
Product Overview



TOQUARTZ® opaque fused quartz crucibles feature uniformly dispersed micro-bubbles creating a milky white appearance. These high-purity (99.98-99.995% SiO₂) crucibles provide exceptional thermal stability up to 1100°C, superior electrical insulation, and excellent resistance to corrosion and wear. Ideal for high-temperature chemical analysis, laboratory testing, and industrial material processing.

OPAQUE FUSED QUARTZ CRUCIBLES

Key Features

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- **High Temperature Resistance:** Withstands temperatures above 1100°C with minimal thermal expansion
 - **Chemical Corrosion Resistance:** Resists most acids, alkalis, and salt solutions
 - **High Purity Material:** 99.9-99.98% SiO₂ content ensuring minimal contamination
 - **Exceptional Mechanical Strength:** Fracture modulus exceeding 350 MPa
 - **Excellent Thermal Conductivity:** 120-160 W/m·K for uniform heat distribution
 - **Customization Flexibility:** Available in standard sizes or custom dimensions

OPAQUE FUSED QUARTZ CRUCIBLES

Applications



- High-temperature materials research and development
- Laboratory analysis and testing procedures
- Industrial furnace applications
- Metal, ceramic, and glass processing
- Chemical analysis and sample preparation



SIZE CHART



ARC-SHAPED QUARTZ CRUCIBLES

Model	Capacity (ml)	Bottom Diameter (mm)	Height (mm)	SiO ₂ Content (%)
AT-SY-RG001	5	25	33	99.9-99.98
AT-SY-RG002	10	30	40	99.9-99.98
AT-SY-RG003	15	34	48	99.9-99.98
AT-SY-RG004	20	38	52	99.9-99.98
AT-SY-RG005	25	42	58	99.9-99.98
AT-SY-RG006	30	45	60	99.9-99.98
AT-SY-RG007	50	55	70	99.9-99.98



SIZE CHART

ARC-SHAPED QUARTZ CRUCIBLES



Model	Capacity (ml)	Bottom Diameter (mm)	Height (mm)	SiO ₂ Content (%)
AT-SY-RG008	100	70	95	99.9-99.98
AT-SY-RG009	150	80	105	99.9-99.98
AT-SY-RG010	200	90	115	99.9-99.98
AT-SY-RG011	250	95	130	99.9-99.98
AT-SY-RG012	500	115	165	99.9-99.98
AT-SY-RG013	1000	140	200	99.9-99.98
AT-SY-RG014	2000	170	245	99.9-99.98



SIZE CHART

CYLINDRICAL QUARTZ CRUCIBLES



Model	Length (mm)	Width (mm)	Height (mm)	SiO ₂ Content (%)
AT-SY-RG015	60	40	17	99.9-99.98
AT-SY-RG016	80	25	25	99.9-99.98
AT-SY-RG017	85	85	30	99.9-99.98
AT-SY-RG018	137	73	35	99.9-99.98
AT-SY-RG019	140	80	40	99.9-99.98
AT-SY-RG020	155	94	33	99.9-99.98



SIZE CHART

CYLINDRICAL QUARTZ CRUCIBLES



Model	Length (mm)	Width (mm)	Height (mm)	SiO ₂ Content (%)
AT-SY-RG021	200	200	50	99.9-99.98
AT-SY-RG022	225	56	22	99.9-99.98
AT-SY-RG023	230	94	90	99.9-99.98
AT-SY-RG024	264	175	75	99.9-99.98
AT-SY-RG025	275	125	60	99.9-99.98



SIZE CHART

SQUARE QUARTZ CRUCIBLES



Model	Diameter (mm)	Height (mm)	SiO ₂ Content (%)
AT-SY-RG026	20	30	99.9-99.98
AT-SY-RG027	25	38	99.9-99.98
AT-SY-RG028	50	15	99.9-99.98
AT-SY-RG029	50	30	99.9-99.98
AT-SY-RG030	128	138	99.9-99.98



SIZE CHART

SQUARE QUARTZ CRUCIBLES



Model	Diameter (mm)	Height (mm)	SiO ₂ Content (%)
AT-SY-RG031	148	120	99.9-99.98
AT-SY-RG032	165	125	99.9-99.98
AT-SY-RG033	182	152	99.9-99.98
AT-SY-RG034	205	165	99.9-99.98



AVAILABLE SHAPES AND CONFIGURATIONS

- Arc Shape: Standard laboratory crucibles with rounded bottoms
- Square/Rectangular: Ideal for efficient space utilization and specialized processes
- Cylindrical: Straight-walled designs for specific industrial applications



CUSTOM MANUFACTURING CAPABILITIES

TOQUARTZ offers comprehensive customization services for opaque fused quartz crucibles:

- Custom dimensions with $\pm 0.2\text{mm}$ precision
- Special shapes and configurations
- Technical consultation for optimal material selection
- Fast prototyping and production

USAGE GUIDELINES

For maximum crucible lifespan, follow these recommended practices:

- Avoid rapid temperature changes (heat/cool at $100\text{-}150^\circ\text{C}$ per hour)
- Pre-heat crucibles at 200°C for 30 minutes before high-temperature use
- Clean with ultrapure water and mild detergent
- Store in clean, dry environments free from contaminants
- Inspect before each use for microscopic damage



QUALITY ASSURANCE

All TOQUARTZ® opaque fused quartz crucibles 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

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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.