TOQUARTZ

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Tech Specifications

Quartz Crucible

Integrated Engineering & Agile Production

for Demanded Specifications

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TOQUARTZ®
TRANSPARENT QUARTZ CRUCIBLES

Product Overview

High-purity transparent quartz crucibles manufactured with SiO_2 content of 99.98% minimum. These crucibles offer exceptional thermal stability, excellent optical transparency, and superior electrical insulation properties. Highly resistant to acids, bases, and corrosive environments, making them ideal for laboratory instruments, optical instruments, and material analysis tests.

TRANSPARENT QUARTZ CRUCIBLES

Key Features

- High Temperature Resistance: Operating temperature exceeds 1100°C with minimal thermal expansion
- Chemical Resistance: Resistant to most acids, bases, and corrosive environments
- Optical Transparency: 92-93% transparency in the visible spectrum (450-780nm)
- Electrical Insulation: Outstanding electrical insulation properties
- Customization Available: Wall thickness, dimensions, and special features can be tailored to your requirements

TRANSPARENT QUARTZ CRUCIBLES

Applications

- Laboratory Instrument Manufacturing: Integrated components for analytical equipment
- Optical Instrument Production: Components requiring high optical clarity
- Material Analysis Testing: High-temperature sample containment and processing
- Research & Development: Controlled environment chemical reactions
- Academic Research: Sample preparation and experimental procedures

SIZE CHART

ARC-SHAPED QUARTZ CRUCIBLES

Model	Capacity (ml)	Outer Dia. (mm)	Bottom Dia. (mm)	Height (mm)	Wall Thickness (mm)	Purity
AT-QTZ-B001	5	25	18	31	1.5	99%-99.99%
AT-QTZ-B002	5	25	18	40	1.5	99%-99.99%
AT-QTZ-B003	10	30	23	42	2	99%-99.99%
AT-QTZ-B004	10	30	23	53	2	99%-99.99%
AT-QTZ-B005	20	35	25	45	2	99%-99.99%

SIZE CHART

ARC-SHAPED QUARTZ CRUCIBLES

Model	Capacity (ml)	Outer Dia. (mm)	Bottom Dia. (mm)	Height (mm)	Wall Thickness (mm)	Purity
AT-QTZ-B006	20	35	25	59	2	99%-99.99%
AT-QTZ-B007	30	40	30	54	2	99%-99.99%
AT-QTZ-B008	30	40	30	68	2	99%-99.99%
AT-QTZ-B009	50	45	33	63	2	99%-99.99%
AT-QTZ-B010	50	45	33	75	2	99%-99.99%

SIZE CHART

ARC-SHAPED QUARTZ CRUCIBLES

Model	Capacity (ml)	Outer Dia. (mm)	Bottom Dia. (mm)	Height (mm)	Wall Thickness (mm)	Purity
AT-QTZ-B011	100	54	39	84	2	99%-99.99%
AT-QTZ-B012	100	54	39	100	2	99%-99.99%
AT-QTZ-B013	150	60	43	90	2	99%-99.99%
AT-QTZ-B014	150	60	43	105	2	99%-99.99%
AT-QTZ-B015	200	69	46	91	2.5	99%-99.99%

SIZE CHART

ARC-SHAPED QUARTZ CRUCIBLES

Model	Capacity (ml)	Outer Dia. (mm)	Bottom Dia. (mm)	Height (mm)	Wall Thickness (mm)	Purity
AT-QTZ-B016	200	69	46	110	2.5	99%-99.99%
AT-QTZ-B017	250	75	50	110	2.5	99%-99.99%
AT-QTZ-B018	250	75	50	130	2.5	99%-99.99%
AT-QTZ-B019	300	80	51	111	2.5	99%-99.99%
AT-QTZ-B020	300	80	51	130	2.5	99%-99.99%

SIZE CHART

ARC-SHAPED QUARTZ CRUCIBLES

Model	Capacity (ml)	Outer Dia. (mm)	Bottom Dia. (mm)	Height (mm)	Wall Thickness (mm)	Purity
AT-QTZ-B021	500	88	67	137	2.5	99%-99.99%
AT-QTZ-B022	500	88	67	160	2.5	99%-99.99%

SIZE CHART

CYLINDRICAL QUARTZ CRUCIBLES

Model	Capacity (ml)	Outer Dia. (mm)	Height (mm)	Wall Thickness (mm)	Purity
AT-QTZ-A001	0.7	20	4	1.5	99%-99.99%
AT-QTZ-A002	0.6	12	8	1.5	99%-99.99%
AT-QTZ-A003	0.9	12	12	1.5	99%-99.99%
AT-QTZ-A004	0.8	12	10	1.5	99%-99.99%
AT-QTZ-A005	0.9	20	5	1.5	99%-99.99%
AT-QTZ-A006	0.7	12	10	1.5	99%-99.99%
AT-QTZ-A007	1.4	18	8	1.5	99%-99.99%

SIZE CHART

CYLINDRICAL QUARTZ CRUCIBLES

Model	Capacity (ml)	Outer Dia. (mm)	Height (mm)	Wall Thickness (mm)	Purity
AT-QTZ-A008	1.3	11	20	1.5	99%-99.99%
AT-QTZ-A009	1.6	12	20	1.5	99%-99.99%
AT-QTZ-A010	1.7	9	40	1.5	99%-99.99%
AT-QTZ-A011	1.5	13	25	1.5	99%-99.99%
AT-QTZ-A012	1.3	10	25	1.5	99%-99.99%
AT-QTZ-A013	5	20	20	1.5	99%-99.99%
AT-QTZ-A014	2	30	5	1.5	99%-99.99%

SIZE CHART

CYLINDRICAL QUARTZ CRUCIBLES

Model	Capacity (ml)	Outer Dia. (mm)	Height (mm)	Wall Thickness (mm)	Purity
AT-QTZ-A015	6	22	20	1.5	99%-99.99%
AT-QTZ-A016	3.5	18	18	1.5	99%-99.99%
AT-QTZ-A017	4	16	28	1.5	99%-99.99%
AT-QTZ-A018	0.5	15	5	1.5	99%-99.99%
AT-QTZ-A019	1.2	15	10	1.5	99%-99.99%
AT-QTZ-A020	2.6	15	20	1.5	99%-99.99%
AT-QTZ-A021	3.7	17	21	1.5	99%-99.99%

SIZE CHART

CYLINDRICAL QUARTZ CRUCIBLES

Model	Capacity (ml)	Outer Dia. (mm)	Height (mm)	Wall Thickness (mm)	Purity
AT-QTZ-A022	5.2	14	44	1.5	99%-99.99%
AT-QTZ-A023	6	32	10	2	99%-99.99%
AT-QTZ-A024	2	10	40	2	99%-99.99%
AT-QTZ-A025	6	15	50	2	99%-99.99%
AT-QTZ-A026	8	28	17	2	99%-99.99%
AT-QTZ-A027	6	35	8.5	2	99%-99.99%
AT-QTZ-A028	7	16	50	2	99%-99.99%

SIZE CHART

CYLINDRICAL QUARTZ CRUCIBLES

Model	Capacity (ml)	Outer Dia. (mm)	Height (mm)	Wall Thickness (mm)	Purity
AT-QTZ-A029	12	54	8	2	99%-99.99%
AT-QTZ-A030	6	17	37	2	99%-99.99%
AT-QTZ-A031	9	16	60	2	99%-99.99%
AT-QTZ-A032	7.5	20	30	2	99%-99.99%
AT-QTZ-A033	7	22	25	2	99%-99.99%
AT-QTZ-A034	10	25	25	2	99%-99.99%
AT-QTZ-A035	9	20	40	2	99%-99.99%

SIZE CHART

CYLINDRICAL QUARTZ CRUCIBLES

Model	Capacity (ml)	Outer Dia. (mm)	Height (mm)	Wall Thickness (mm)	Purity
AT-QTZ-A036	12	19	58	2	99%-99.99%
AT-QTZ-A037	16	30	28	2	99%-99.99%
AT-QTZ-A038	17	47	13	2	99%-99.99%
AT-QTZ-A039	20	23	60	2	99%-99.99%
AT-QTZ-A040	17	30	30	2	99%-99.99%
AT-QTZ-A041	24.5	25	60	2	99%-99.99%
AT-QTZ-A042	23	35	30	2	99%-99.99%

SIZE CHART

CYLINDRICAL QUARTZ CRUCIBLES

Model	Capacity (ml)	Outer Dia. (mm)	Height (mm)	Wall Thickness (mm)	Purity
AT-QTZ-A043	24	28	58	2	99%-99.99%
AT-QTZ-A044	28	35	35	2	99%-99.99%
AT-QTZ-A045	30	28	58	2	99%-99.99%
AT-QTZ-A046	35	30	60	2	99%-99.99%
AT-QTZ-A047	39	36	45	2	99%-99.99%
AT-QTZ-A048	37	40	35	2	99%-99.99%
AT-QTZ-A049	36	26	82	2	99%-99.99%

SIZE CHART

CYLINDRICAL QUARTZ CRUCIBLES

Model	Capacity (ml)	Outer Dia. (mm)	Height (mm)	Wall Thickness (mm)	Purity
AT-QTZ-A050	43	40	40	2	99%-99.99%
AT-QTZ-A051	41	40	40	2.5	99%-99.99%
AT-QTZ-A052	54	40	50	2	99%-99.99%
AT-QTZ-A053	52	40	50	2.5	99%-99.99%
AT-QTZ-A054	63	40	60	2.5	99%-99.99%
AT-QTZ-A055	130	40	120	2.5	99%-99.99%
AT-QTZ-A056	150	60	60	2.5	99%-99.99%

SIZE CHART

SQUARE QUARTZ CRUCIBLES

Model	Length (mm)	Width (mm)	Height (mm)	Wall Thickness (mm)	Purity
AT-QTZ-C001	50	10	10	2-3	99%-99.99%
AT-QTZ-C002	100	10	10	2-3	99%-99.99%
AT-QTZ-C003	50	15	10	2-3	99%-99.99%
AT-QTZ-C004	100	15	10	2-3	99%-99.99%
AT-QTZ-C005	50	20	15	2-3	99%-99.99%
AT-QTZ-C006	100	20	15	2-3	99%-99.99%
AT-QTZ-C007	50	30	20	2-3	99%-99.99%

SIZE CHART

SQUARE QUARTZ CRUCIBLES

Model	Length (mm)	Width (mm)	Height (mm)	Wall Thickness (mm)	Purity
AT-QTZ-C008	100	30	20	2-3	99%-99.99%
AT-QTZ-C009	50	40	25	2-3	99%-99.99%
AT-QTZ-C010	100	40	25	2-3	99%-99.99%
AT-QTZ-C011	50	50	30	2-3	99%-99.99%
AT-QTZ-C012	100	50	30	2-3	99%-99.99%

SIZE CHART

SQUARE QUARTZ CRUCIBLES

Model	Length (mm)	Width (mm)	Height (mm)	Wall Thickness (mm)	Purity
AT-QTZ-C013	50	50	50	2-3	99%-99.99%
AT-QTZ-C014	100	100	30	2-3	99%-99.99%
AT-QTZ-C015	100	100	50	2-3	99%-99.99%
AT-QTZ-C016	100	100	100	2-3	99%-99.99%
AT-QTZ-C017	200	100	50	2-3	99%-99.99%

MATERIAL PROPERTIES

Chemical Composition & OH Content (ppm)

Cr	Ge	Fe	Mg	Ti	Ca	Al	Na	Li	K	OH
20	0.4	1.5	0.4	100	1	16	2.3	0.5	2	<25

Spectral Transmission at 1.0mm Thickness (%)

<220 nm	230-280nm	290-330nm	350nm	450nm	550nm	590nm	780nm
0	<15	0	15	88	92	93	93

MATERIAL PROPERTIES

Physical Properties

Property	Value
Density (20°C)	2.2×10^{3} kg·m^{-3}
Coefficient of expansion (25-300°C)	0.56×10^{-6} °C^{-1}
Softening point	1630°C
Annealing point	1180°C
Strain point	1100°C
Young's modulus	7.3×10^{5} Pa

CUSTOMIZATION SERVICES

TOQUARTZ offers comprehensive customization services for transparent quartz crucibles:

- Dimensional Customization: Custom diameters, wall thickness, and specialized shapes
- Material Modifications: Grade selection (JGS-1, JGS-2, JGS-3) and specific OH content
- Special Features: Added spouts, custom lids, surface treatments, and specialized markings

USAGE GUIDELINES

- Handle with clean gloves to prevent contamination
- Avoid rapid temperature changes exceeding 200°C/minute
- Compatible with most acids except hydrofluoric acid
- Clean with dilute acids followed by deionized water rinse
- Store in clean, dust-free environment

QUALITY ASSURANCE

All TOQUARTZ® transparent quartz crucibles undergo rigorous quality control to ensure consistent performance in demanding applications.:

- Dimensional verification
- Optical transparency testing
- Surface quality inspection
- Material composition analysis

Contact Information

Email: info@toquartz.com
Website: www.toquartz.com

TOQUARTZ® - Precision Quartz Solutions for Industry and Research

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Tech Specifications

Quartz Crucible

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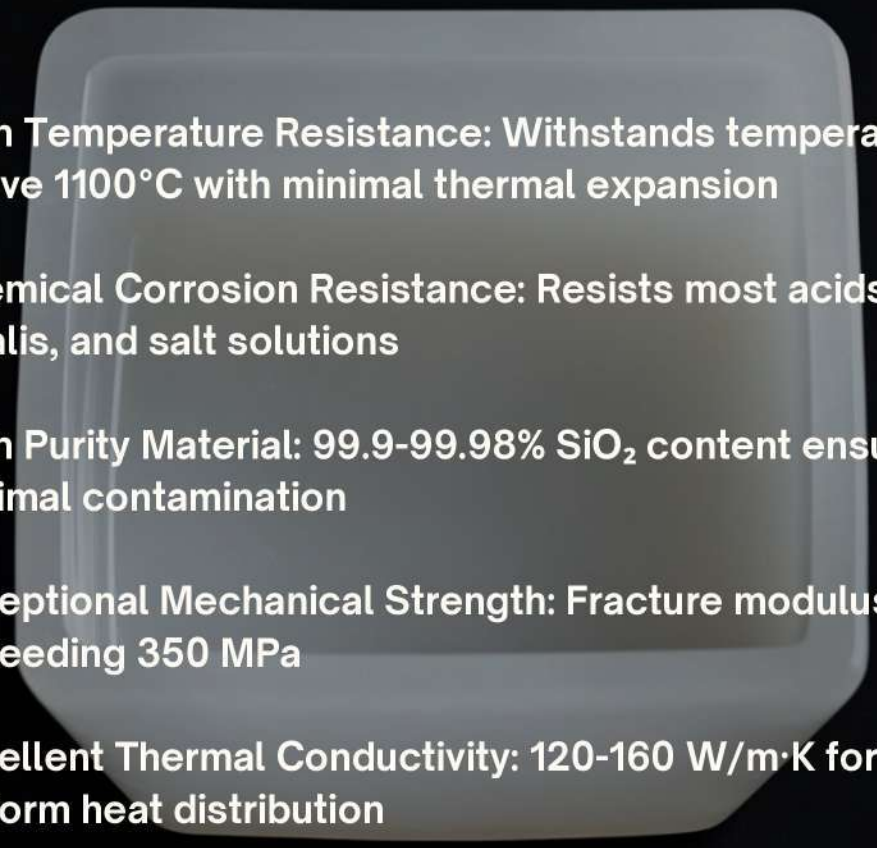
TOQUARTZ®
OPAQUE FUSED QUARTZ CRUCIBLES

Product Overview

TOQUARTZ® opaque fused quartz crucibles feature uniformly dispersed micro-bubbles creating a milky white appearance. These high-purity (99.98-99.995% SiO_2) 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



- 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% SiO_2 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

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 opqaue fused quartz crucibles:

- Custom dimensions with ±0.2mm 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 100-150°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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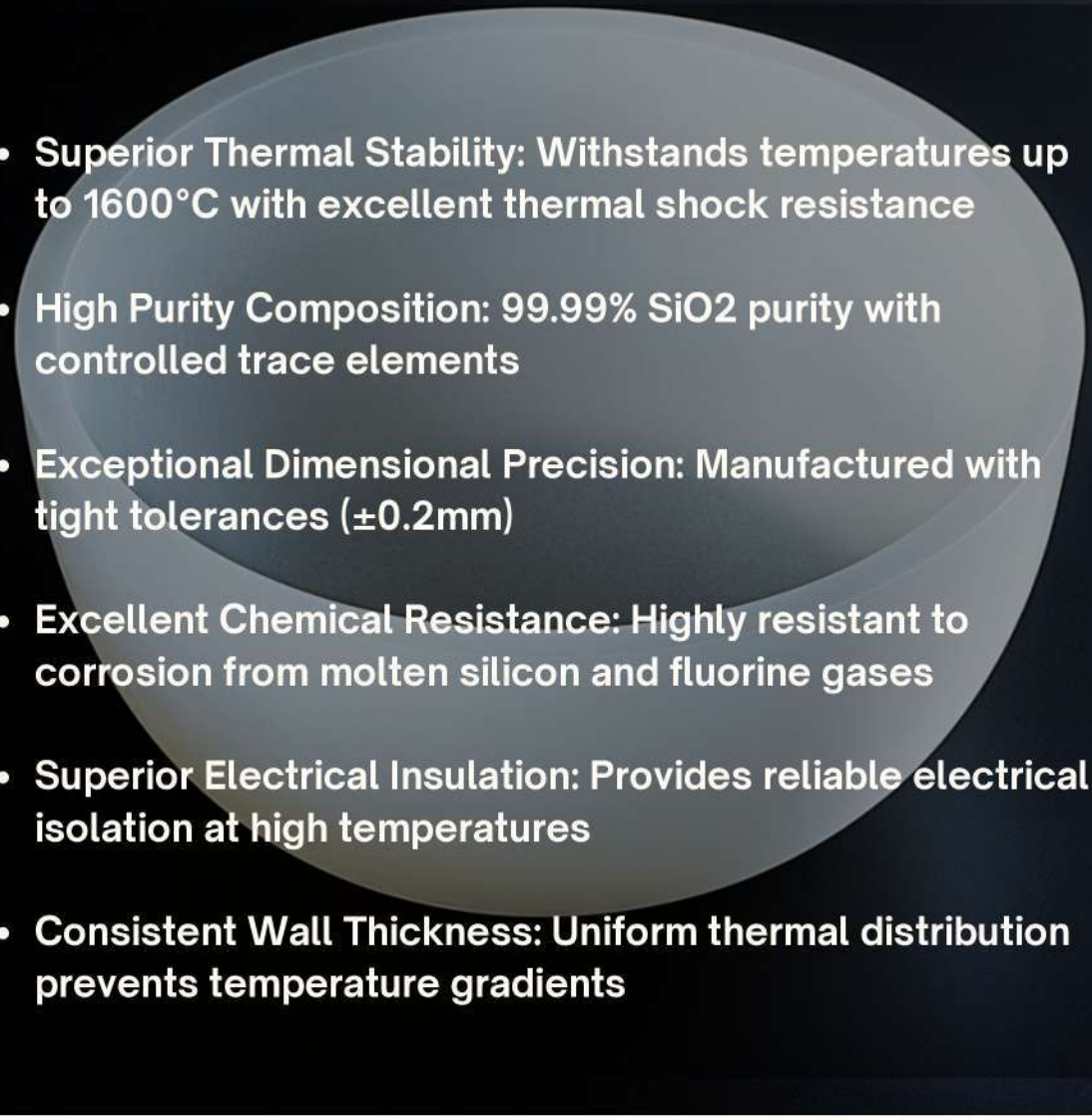
TOQUARTZ®
FUSED QUARTZ CZOCHRALSKI CRUCIBLE

Product Overview

TOQUARTZ® Fused Quartz Czochralski Crucibles are high-purity containers designed for monocrystalline silicon growth in solar and semiconductor industries. With 99.99% SiO2 purity, temperature resistance up to 1600°C, and exceptional dimensional stability, these crucibles deliver reliable performance for continuous crystal pulling processes.

FUSED QUARTZ CZOCHRALSKI CRUCIBLE

Key Features

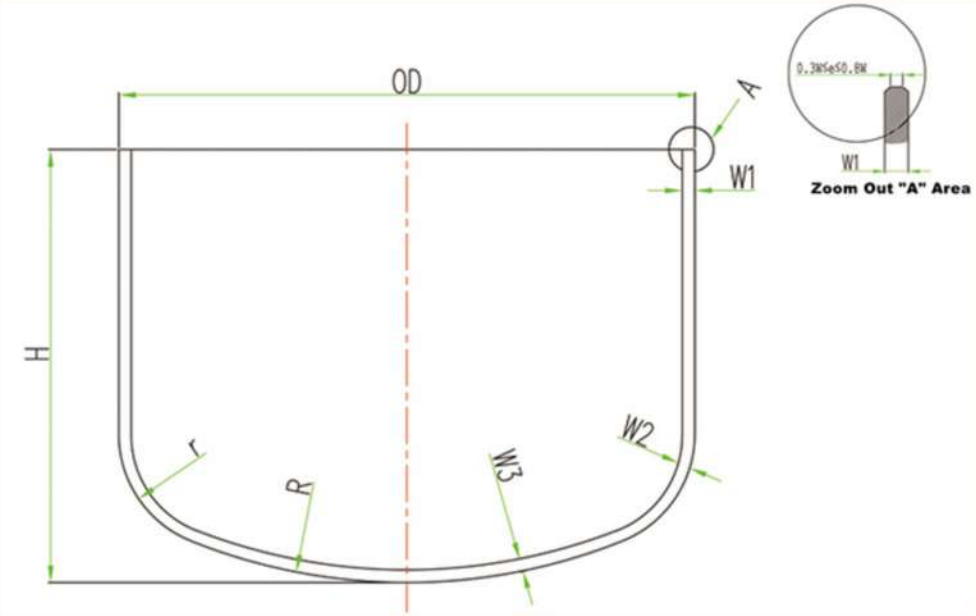


- Superior Thermal Stability: Withstands temperatures up to 1600°C with excellent thermal shock resistance
- High Purity Composition: 99.99% SiO2 purity with controlled trace elements
- Exceptional Dimensional Precision: Manufactured with tight tolerances (±0.2mm)
- Excellent Chemical Resistance: Highly resistant to corrosion from molten silicon and fluorine gases
- Superior Electrical Insulation: Provides reliable electrical isolation at high temperatures
- Consistent Wall Thickness: Uniform thermal distribution prevents temperature gradients

FUSED QUARTZ CZOCHRALSKI CRUCIBLE

SIZE CHART

FUSED QUARTZ CZOCHRALSKI CRUCIBLE



Model	Size (inch)	OD (mm)	Height – H(mm)	Thickness – T(mm)			Standard Radius – R(mm)	Standard Radius – r(mm)	Gap(mm)	SiO2 Purity (%)
				W1	W2	W3				
AT-SY-GG1001	14	355.6(±2.0)	Can be customized	8.5(±2.0)	10.5(±2.0)	8.5(±2.0)	381	89	≤5	99.99
AT-SY-GG1002	16	406.5(±2.5)		9.0(±2.0)	11.0(±2.0)	9.0(±2.0)	406	76		99.99
AT-SY-GG1003	18	457.0(±2.5)		9.5(±2.0)	11.5(±2.0)	9.5(±2.0)	500	120		99.99
AT-SY-GG1004	20	505.0(±3.0)		10.0(±2.0)	11.0(±2.0)	10.0(±2.0)	508	90		99.99
AT-SY-GG1005	22	555.0(±3.0)		11.0(±2.0)	12.0(±2.0)	11.0(±2.0)	558	130		99.99
AT-SY-GG1006	24	607.0(±3.0)		12.0(±2.0)	13.0(±2.0)	12.0(±2.0)	609	120		99.99
AT-SY-GG1007	25	632.0(±3.0)		11.0(±2.0)	11.0(±2.0)	14.0(±2.0)	635	120		99.99
AT-SY-GG1008	26	655.0(±3.0)		12.0(±2.5)	14.5(±2.5)	12.0(±2.5)	669	120		99.99
AT-SY-GG1009	28	710.0(±3.0)		12.0(±2.5)	16.0(±2.5)	12.0(±2.5)	710	120		99.99
AT-SY-GG1010	30	758.0(±3.0)		13.5(±2.0)	13.5(±2.0)	19.0(±3.0)	760	120		99.99
AT-SY-GG1011	32	810.0(±3.0)		14.0(±2.5)	23.0(±2.5)	14.0(±2.5)	810	160		99.99
AT-SY-GG1012	36	912.0(±3.0)		18.0(±2.5)	26.0(±2.5)	18.0(±2.5)	910	180		99.99
AT-SY-GG1013	40	1016.0(±3.0)		20.0(±3.0)	30.0(±3.0)	20.0(±3.0)	1016	186		99.99

MATERIAL PROPERTIES

Physical Properties

- Density: 2.21 g/cm^2
- Mohs Hardness: 6.5
- Compressive Strength: 1100 MPa
- Tensile Strength: 50 MPa
- Bending Strength: 67 MPa

Thermal Properties

- Thermal Expansion Coefficient: 5.11–5.65 x 10^{-7}/°C (100-1100°C)
- Thermal Conductivity: 1.47–2.68 W/(m*°C) (100-1100°C)
- Specific Heat: 772–1052 J/(Kg*°C) (100-500°C)

Purity Specifications

- SiO2 Content: ≥99.99%
- Controlled trace elements (Fe, Mg, Mn, K, Li, etc.)

CUSTOM ENGINEERING SERVICES

TOQUARTZ® provides comprehensive customization services tailored to your specific silicon crystal growing requirements:

- Dimensional Customization: Modify dimensions to match exact specifications
- Specialized Wall Profiles: Custom variations in wall thickness
- Surface Treatment Options: Specialized interior and exterior finishes
- Material Composition Adjustments: Fine-tuning of SiO2 content and trace elements
- Technical Drawing Support: Assistance with specification development

QUALITY ASSURANCE

All TOQUARTZ® Fused Quartz Czochralski 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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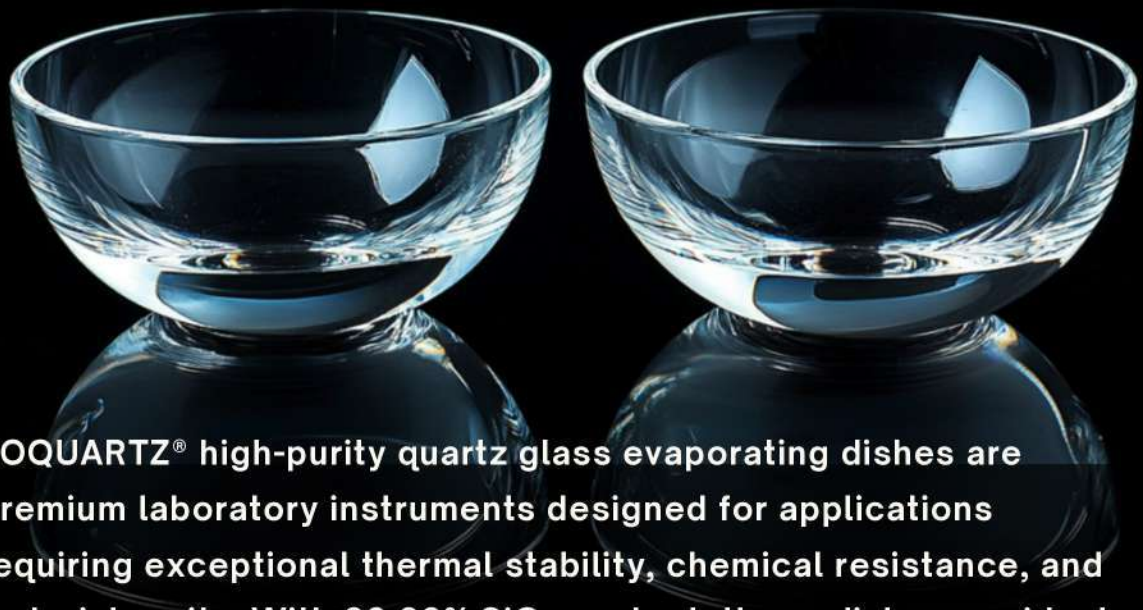
TOQUARTZ®
QUARTZ GLASS EVAPORATING DISH

Product Overview



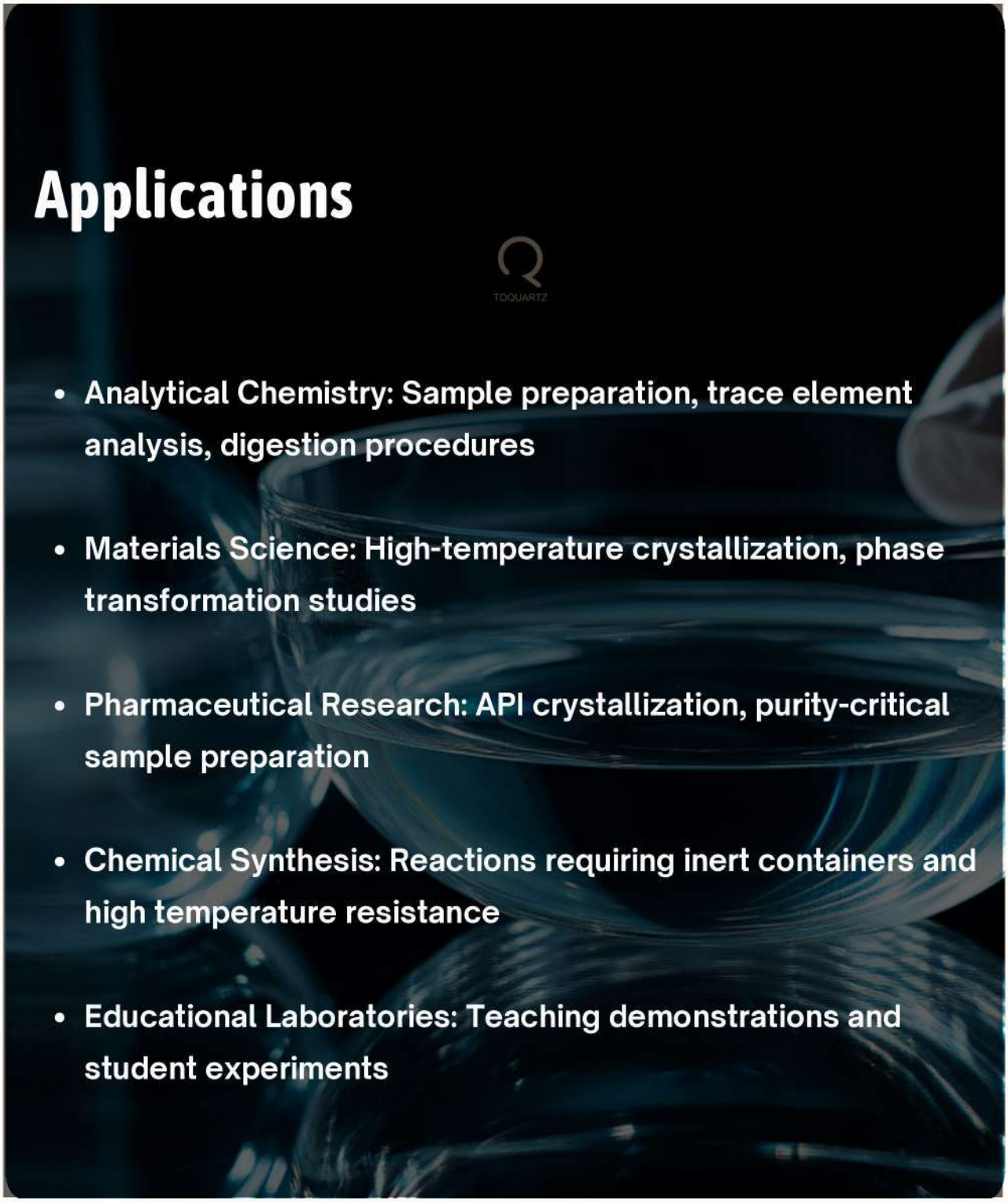
TOQUARTZ® high-purity quartz glass evaporating dishes are premium laboratory instruments designed for applications requiring exceptional thermal stability, chemical resistance, and material purity. With 99.99% SiO_2 content, these dishes are ideal for analytical chemistry, materials science, and pharmaceutical 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_2 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



SIZE CHART

QUARTZ GLASS EVAPORATING DISH

Model	Diameter (mm)	Height (mm)	SiO_2 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_2 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 g/cm^3
- Mohs Hardness: 5.5-6.5 N/mm^2
- Compressive Strength: 6000 N/mm^2 (16000 psi)
- Tensile Strength: 50 N/mm^2
- Bending Strength: 67 N/mm^2

Thermal Properties:

- Thermal Expansion Coefficient: $5.5 \times 10^{-7}/K$ (at 100-1100°C)
- Thermal Conductivity: 1.38-2.68 $W/m \cdot °C$ (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
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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.