



TOQUARTZ
Tech Specifications

TOQUARTZ® Quartz Reagent Bottle with Screw Cap Product Catalog

Integrated Engineering & Agile Production
for Demanded Specifications



TOQUARTZ® QUARTZ REAGENT BOTTLE WITH SCREW CAP

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® Quartz Reagent Bottle with Screw Cap with fast delivery and consistent quality.



Product Overview

TOQUARTZ® High-purity quartz reagent bottles with precision screw caps for laboratory chemical storage and waste collection. Manufactured from 99.99% SiO₂ fused quartz, these bottles offer exceptional chemical resistance and thermal stability up to 1200°C. Ideal for research facilities, analytical laboratories, and chemical processing environments requiring high-performance containment solutions for corrosive substances.

TOQUARTZ® QUARTZ REAGENT BOTTLE WITH SCREW CAP



Key Features

- **High Chemical Purity: 99.99% SiO₂ content prevents metal impurity leaching**
- **Superior Thermal Performance: Temperature resistance up to 1200°C**
- **Exceptional Chemical Resistance: Withstands acids, alkalis, and aggressive chemicals**
- **Optical Clarity: Excellent transmission from UV to IR wavelengths**
- **Customizable: Available in various sizes with custom options**
- **Two Cap Options: Standard plastic or premium PTFE (Teflon)**

TOQUARTZ® QUARTZ REAGENT BOTTLE WITH SCREW CAP



Applications

- Analytical Chemistry: Sample preparation, reagent storage, and analytical standards
- Acid Waste Collection: Safe containment of corrosive waste streams
- High-Temperature Processes: Reactions requiring thermal stability
- Materials Science: Storage of high-purity precursors and specialty chemicals
- Photosensitive Materials: Storage of light-sensitive compounds (with opaque quartz)



TECHNICAL SPECIFICATIONS

Property	Value	Notes
Material	JGS2 Fused Quartz	Electric-fusion process
SiO ₂ Content	99.99%	Ultra-high purity
Manufacturing Process	One-piece Molding	No joints or seams
Maximum Operating Temperature	1200°C	With appropriate caps removed
Thermal Expansion Coefficient	$5.5 \times 10^{-7}/K$	Excellent thermal shock resistance
Density	2.2 g/cm ³	Standard density
Electrical Resistivity	$\geq 10^7 \Omega \cdot \text{cm}$	Excellent insulation properties
Chemical Resistance	Excellent	Resists most acids, bases, and solvents
UV Transmission	High	Transparent from IR to UV range



STANDARD SIZES

Model	Capacity (ml)	Body Diameter (mm)	Height (mm)	Wall Thickness (mm)	Cap Type	SiO2 Content(%)
AT-SJP-1001	2ml	12	32	1.5	Plastic	99.99
AT-SJP-1002	4ml	15	45	2.5	Plastic	99.99
AT-SJP-1003	5ml	18	40	2.5	Plastic	99.99
AT-SJP-1004	7ml	20	50	3	Plastic	99.99
AT-SJP-1005	10ml	22	50	3	Plastic	99.99
AT-SJP-1006	15ml	22	70	3	Plastic	99.99



STANDARD SIZES

Model	Capacity (ml)	Body Diameter (mm)	Height (mm)	Wall Thickness (mm)	Cap Type	SiO ₂ Content (%)
AT-SJP-1007	20ml	28	57	3	Plastic	99.99
AT-SJP-1008	30ml	28	72.5	3	Plastic	99.99
AT-SJP-1009	40ml	28	105	3	Plastic	99.99
AT-SJP-1010	50ml	34	86	3	Plastic	99.99
AT-SJP-1011	100ml	40	115	3	Plastic	99.99



CUSTOMIZED SIZES

Model	Capacity (ml)	Body Diameter (mm)	Height (mm)	Wall Thickness (mm)	Cap Type	SiO2 Content (%)
AT-SJP-1012	5ml (Custom)	20	39	2	PTFE	99.99
AT-SJP-1013	10ml (Custom)	20	65	2	PTFE	99.99
AT-SJP-1014	20ml (Custom)	30	66	2.5	PTFE	99.99
AT-SJP-1015	20ml (Custom)	23	79	2	PTFE	99.99
AT-SJP-1016	30ml (Custom)	30	76	3	PTFE	99.99
AT-SJP-1017	40ml (Custom)	30	100	3.5	PTFE	99.99
AT-SJP-1018	50ml (Custom)	35	90	3	PTFE	99.99
AT-SJP-1019	50ml (Custom)	30	115	3	PTFE	99.99
AT-SJP-1020	60ml (Custom)	30	130	3	PTFE	99.99



CUSTOMIZATION OPTIONS

TOQUARTZ offers comprehensive customization services for Quartz Reagent Bottle with Screw Cap:

- Custom Dimensions: Bottle capacity, diameter, height, and wall thickness
- Thread Specifications: Custom thread patterns for specialized equipment compatibility
- Material Options: Clear or opaque quartz for different applications
- Cap Alternatives: Plastic, PTFE, or other specialized closures



USAGE RECOMMENDATIONS

- **Temperature limit with plastic caps: ~150°C**
- **Temperature limit with PTFE caps: ~250°C**
- **Maximum bottle temperature (without caps): 1200°C**
- **Cleaning: Use dilute acid solutions followed by deionized water rinses**
- **Avoid strong alkalis at high temperatures for extended periods**



ABOUT TOQUARTZ®

TOQUARTZ® is a specialized manufacturer of high-quality quartz glass products for industrial, laboratory, and optical applications. Our factory-direct 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.