



TOQUARTZ

Tech Specifications

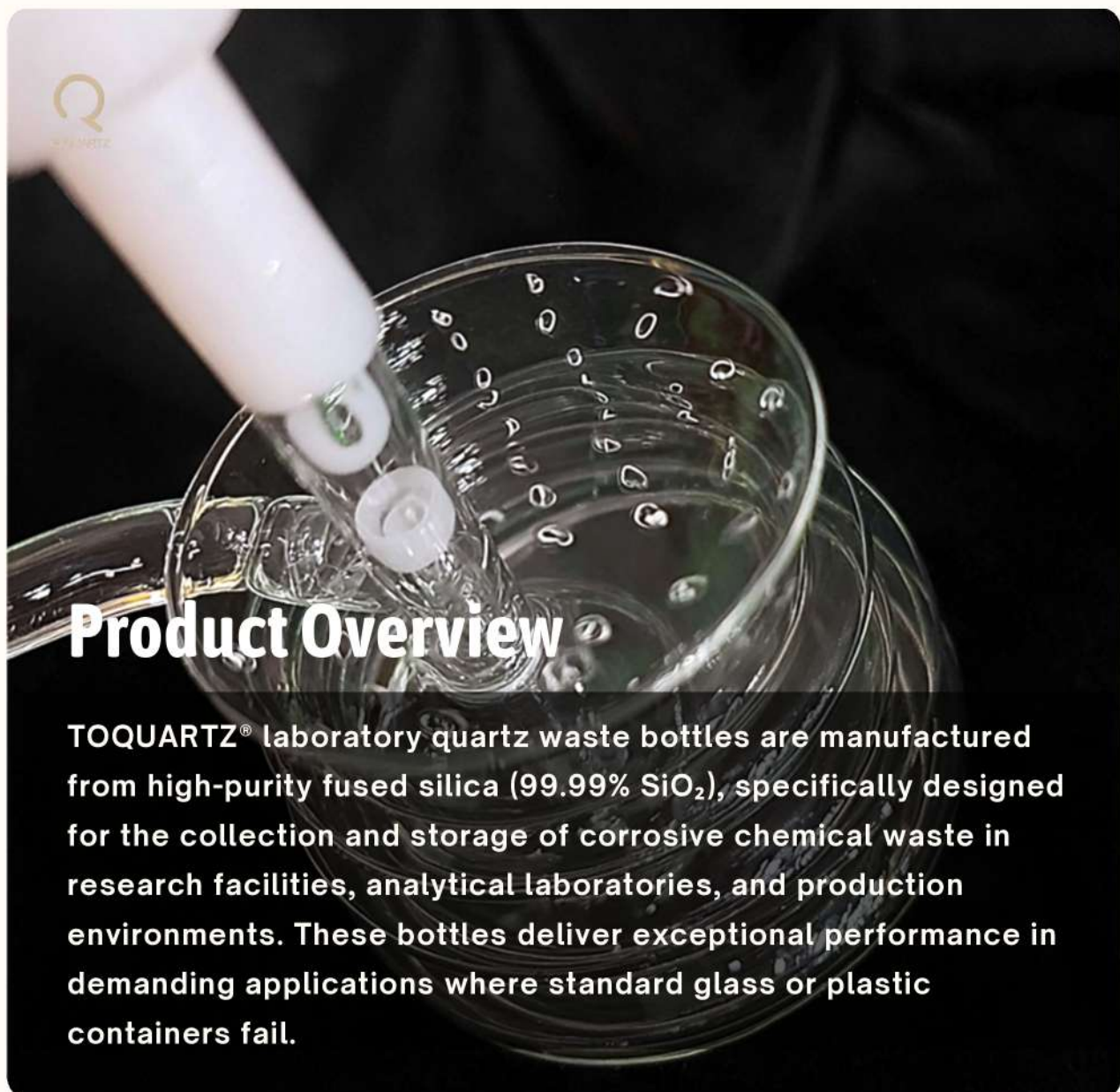
TOQUARTZ® Quartz Laboratory Waste Bottles Product Catalog

Integrated Engineering & Agile Production
for Demanded Specifications



TOQUARTZ® QUARTZ LABORATORY WASTE BOTTLES

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 Laboratory Waste Bottles with fast delivery and consistent quality.



Product Overview

TOQUARTZ® laboratory quartz waste bottles are manufactured from high-purity fused silica (99.99% SiO_2), specifically designed for the collection and storage of corrosive chemical waste in research facilities, analytical laboratories, and production environments. These bottles deliver exceptional performance in demanding applications where standard glass or plastic containers fail.

TOQUARTZ® QUARTZ LABORATORY WASTE BOTTLES



Key Features

- **Chemical Resistance:** Withstands aggressive acids including HF, concentrated mineral acids, and alkalis
- **Thermal Stability:** Operates continuously at temperatures up to 1200°C
- **Thermal Shock Resistance:** Minimizes breakage risk during rapid temperature changes
- **High Transparency:** Enables visual monitoring of waste levels and separation processes
- **Contamination Prevention:** Non-reactive surface maintains chemical purity
- **Extended Service Life:** Significantly outlasts conventional waste containers in harsh environments

TOQUARTZ® QUARTZ LABORATORY WASTE BOTTLES



Applications

- Collection of corrosive acids and chemical waste in analytical laboratories
- High-temperature waste collection from thermal processing equipment
- Solar cell manufacturing waste separation and filtration
- Storage of high-purity chemicals requiring contamination prevention
- Specialized waste processing for research facilities and manufacturing operations



TECHNICAL SPECIFICATIONS

Property	Specification	Test Method
Material Composition	Fused Silica (99.99% SiO ₂)	ICP-MS
Standard Capacities	250ml, 500ml, 1000ml, 2000ml	Volumetric
Wall Thickness	1.5-3mm (±0.2mm tolerance)	Micrometer
Maximum Operating Temperature	1200°C	ASTM C1161
Thermal Expansion Coefficient	5.5×10 ⁻⁷ /°C (20-1000°C)	ASTM E228
Thermal Conductivity	120-160 W/m·K	ASTM C177
Chemical Resistance	Resistant to most acids, alkalis, and salt solutions	ISO 719
Connection Types	Threaded, ground joint, or flanged (customizable)	Visual Inspection
Transparency	>90% (UV-visible range)	Spectrophotometry



CUSTOMIZED SIZE AVAILABLE

Application	Custom Features	Benefits
HF Waste Collection	Double-wall construction with inspection window	Enhanced safety, leak detection capability
High-Temperature Process Waste	Thermal gradient zones, reinforced connection points	Improved thermal shock resistance, extended service life
Particulate-Heavy Waste	Settlement chamber, bottom drain valve	Efficient solid-liquid separation, reduced disposal costs
Photosensitive Material Waste	Amber-tinted quartz, UV filtering properties	Prevents degradation of light-sensitive compounds



CUSTOMIZATION OPTIONS

TOQUARTZ offers comprehensive customization services for Quartz waste bottles:

- Capacity & Dimensions: Custom volumes from 100ml to 5000ml
- Connection Types: Specialized threads, ground joints, or flanged connections
- Functional Features: Integrated separation chambers, filtration mechanisms, level indicators
- Special Requirements: Custom shapes, multiple inlet/outlet ports, thermal gradient zones



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.