

Corrosion Resistant Ptfе Small Reaction Bottle One Piece Molded Teflon Sample Storage Tank

Item Number: PL-CP135



Introduction

High-performance corrosion resistant PTFE small reaction bottles offer exceptional chemical inertness and thermal stability for demanding laboratory environments. Featuring one-piece molded construction and customizable dimensions, these Teflon storage tanks ensure leak-proof containment and maximum purity for trace analysis applications.

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Application	Description	Key Benefit
Trace Element Analysis	Storage and preparation of samples for ICP-MS or ICP-OES where background contamination must be minimized.	Negligible leaching of metal ions and ultra-low adsorption rates.
Acid Digestion	High-temperature dissolution of mineral or biological samples using concentrated mineral acids like HF or Aqua Regia.	High thermal resistance and total immunity to concentrated acidic attack.
Semiconductor Processing	Transport and handling of high-purity precursors and etching chemicals used in wafer fabrication.	Maintains the extreme purity levels required for sub-micron manufacturing processes.
Cryogenic Storage	Preservation of sensitive biological or chemical markers at liquid nitrogen temperatures.	Maintains ductility and seal integrity at temperatures as low as -200°C.
Pharmaceutical Synthesis	Reaction vessel for the synthesis of volatile or highly reactive pharmaceutical intermediates.	Inert reaction environment that prevents side reactions with the vessel material.
Geochemical Sampling	Long-term containment of rock and soil extracts in environmental and geological research.	Robustness against mechanical stress and chemical weathering during field and lab work.
Petrochemical Testing	Analysis of petroleum derivatives and additives involving harsh organic solvents and elevated pressures.	Resistant to swelling and degradation from long-term exposure to hydrocarbons.

Attribute	Specification Detail
Product Item Number	PL-CP135
Material Composition	100% Virgin PTFE (Polytetrafluoroethylene)
Manufacturing Process	One-piece Injection Molding / Custom CNC Finishing
Capacity (Standard)	22ml (Custom volumes available upon request)
Operating Temperature Range	-200°C to +260°C (-328°F to +500°F)
Chemical Resistance	Universal (except for molten alkali metals and elemental fluorine)
Interior Finish	Ultra-smooth, crevice-free, non-stick
Cap Type	PTFE Precision Screw Cap with integrated sealing ring
Wall Construction	Heavy-duty, high-density wall thickness for pressure resilience
Customization Options	Dimensions, Capacity, Wall Thickness, and Cap Design

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Compliance	FDA Approved material grade for pharmaceutical and food safety	