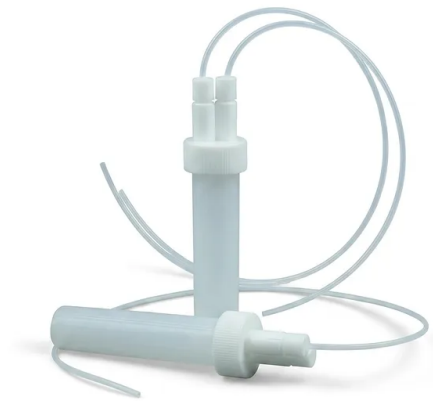


High Purity Pfa Reaction Bottle With Tubing Connection For Corrosive Chemical Synthesis And Trace Analysis

Item Number: PL-CP364



Introduction

High-purity PFA reaction bottles engineered for low-background trace analysis and corrosive chemical processing. Features customizable configurations and seamless Teflon tubing integration to ensure zero contamination and superior chemical resistance in demanding laboratory environments and industrial synthesis applications.

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Application	Description	Key Benefit
Trace Metal Analysis	Storage and digestion of samples for environmental heavy metal detection.	Minimizes ion adsorption and background noise in ICP-MS results.
Semiconductor Processing	Handling of high-purity etching chemicals and photoresist solvents.	Prevents metallic contamination that can compromise wafer integrity.
Hydrofluoric Acid Storage	Long-term containment and dispensing of HF for glass etching or mineral digestion.	Eliminates the risk of container erosion and hazardous leaks.
Pharmaceutical Synthesis	Reaction vessel for the production of high-purity active pharmaceutical ingredients (APIs).	Ensures no leaching of plastic additives into the final product.
Geochemical Digestion	Decomposition of rock and soil samples using concentrated mineral acids.	High thermal and chemical resistance for aggressive sample prep.
Standard Solution Prep	Preparation and storage of calibration standards for analytical chemistry.	Long-term stability and concentration accuracy of sensitive standards.
Closed-System Fluid Transfer	Integration into automated sampling systems via Teflon tubing ports.	Maintains sample purity by preventing exposure to ambient air.
Battery Research	Testing of corrosive electrolyte materials in advanced battery cell development.	Withstands aggressive lithium salts and organic carbonates.

Feature	Specification for PL-CP364	Customization Options
Base Model Number	PL-CP364	Supported
Material Construction	High-Purity Perfluoroalkoxy (PFA)	PTFE variants available upon request
Standard Capacity	60ml	Customizable to larger/smaller volumes
Connection Interface	Compatible with Teflon/PTFE Tubing	Custom port sizes and thread types available
Operating Temperature	-200°C to +260°C	Specific wall thicknesses for thermal loads
Chemical Resistance	Universal (including HF, Aqua Regia)	Specialized seals for volatile organics
Leaching Profile	Low Background / Trace Analysis Grade	Certified high-purity cleaning available
Surface Finish	Ultra-smooth CNC finish	Custom internal geometries available
Dimensions	Standard 60ml Profile	Bespoke height/diameter ratios per CNC spec
Closure Type	High-seal Screw Cap with Porting	Septa, valve-integrated, or solid caps