

Corrosion Resistant Ptfе Small Reagent Bottle Non Stick Biopharmaceutical Sample Storage Vessel Easy Clean Teflon Container

Item Number: PL-CP312



Introduction

This high-purity PTFE reagent bottle offers exceptional chemical resistance and non-stick surfaces for biopharmaceutical storage. Engineered for leak-free performance and easy cleaning, it supports customizable dimensions for demanding laboratory and industrial fluid handling applications.

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Application	Description	Key Benefit
Biopharmaceutical Storage	Storage of high-value proteins, vaccines, and bioactive compounds.	Prevents sample adsorption and preserves biological activity.
Trace Metal Analysis	Preparation and storage of ultra-pure acids and samples for ICP-MS/OES.	Zero metal leaching ensures extremely low detection limits.
Cryogenic Research	Long-term storage of sensitive reagents in liquid nitrogen or ultra-low freezers.	Remains ductile and crack-resistant at sub-zero temperatures.
Corrosive Chemical Sampling	Collection of hydrofluoric acid, hot concentrated alkalis, and strong oxidizers.	Complete corrosion resistance protects personnel and integrity.
Food & Beverage Testing	Analysis of high-purity flavorings and additives requiring FDA compliance.	Inert surface prevents flavor carryover and microbial growth.
Semiconductor Processing	Handling of high-purity etchants and photoresists in cleanroom environments.	Eliminates ionic contamination in microelectronic manufacturing.
Electrochemical Research	Use as a reservoir for electrolytes in custom battery testing setups.	Withstands reactive electrochemical environments without degradation.

Attribute	Specification Detail for PL-CP312
Model Number	PL-CP312
Material Construction	100% Virgin High-Purity PTFE
Manufacturing Method	Precision CNC Machining (Customizable)
Operating Temperature	-200°C to +260°C (Continuous)
Chemical Resistance	Universal (Except molten alkali metals and elemental fluorine)
Surface Finish	Ultra-smooth, non-porous internal and external finish
Volume Capacity	Customizable to client specifications
Wall Thickness	Customizable for high-pressure or standard applications
Closure Type	PTFE Screw Cap with integrated sealing ridge (Leak-proof)
Compliance	Manufactured using FDA-approved raw materials
Customization Options	Dimension modification, volume adjustment, custom thread patterns