

High Purity Ptfе Corrosion Resistant Reaction Vessel With Luer Fittings And Caps For Trace Analysis

Item Number: PL-CP7369



Introduction

High-purity PTFE reaction vessels with integrated Luer fittings and secure caps offer ultimate corrosion resistance and zero leaching. These customizable tanks provide a reliable, ultra-clean environment for trace analysis, aggressive chemical synthesis, and precision fluid transfer in demanding labs.

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Application	Description	Key Benefit
Trace Metal Analysis	Preparation and storage of samples for ICP-MS and ICP-OES where plasticizer leaching must be avoided.	Zero metallic contamination
Semiconductor Processing	Storage and reaction of high-purity etching chemicals such as hydrofluoric and nitric acid blends.	Long-term material stability
Pharmaceutical Synthesis	Small-scale reaction of active pharmaceutical ingredients (APIs) requiring high-purity environments.	Non-reactive contact surfaces
Battery Research	Testing of aggressive electrolytes and lithium-ion battery components under controlled conditions.	Corrosion resistance to salts
Hydrothermal Digestion	High-temperature digestion of geological or environmental samples in pressurized environments.	Thermal and pressure resilience
Standard Solution Prep	Creation and long-term storage of primary analytical standards and reference materials.	Minimal leaching over time
Volatile Organic Sampling	Closed-system sampling via Luer ports to prevent the loss of volatile compounds during analysis.	Secure, leak-proof fluid path
Bio-Medical Research	Reaction vessels for protein synthesis or lipid extraction where biocompatibility is essential.	Biologically inert interface

Parameter	PL-CP7369-50	PL-CP7369-100	PL-CP7369-CUST
Nominal Volume	50ml	100ml	Custom Volumes Available
Material	High-Purity PTFE	High-Purity PTFE	High-Purity PTFE
Fitting Type	Integrated Luer Lock/Taper	Integrated Luer Lock/Taper	Per Client Specification
Cap Design	Threaded with Sealing Ring	Threaded with Sealing Ring	Customizable Multi-Port
Temperature Range	-200°C to +260°C	-200°C to +260°C	Application Dependent
Chemical Compatibility	Universal (Except molten alkali)	Universal (Except molten alkali)	Universal
Manufacturing Process	Precision CNC Machined	Precision CNC Machined	Bespoke CNC Fabrication
Surface Finish	Ultra-Smooth / Non-Porous	Ultra-Smooth / Non-Porous	Controlled Ra Surface Finish

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Parameter	PL-CP7369-50	PL-CP7369-100	PL-CP7369-CUST
Extraction Profile	No Detectable Ions/Leachables	No Detectable Ions/Leachables	Certified Purity Grades