Custom High Purity Ptfe Storage Barrel With Corrosion Resistant Threaded Sealing Lid And Low Background Properties 15L

Item Number: PL-CP227

Introduction

Precision-engineered 15L PTFE storage barrels designed for critical trace analysis and corrosive chemical containment. Featuring low-background properties and CNC-machined threaded lids, these customizable units ensure absolute sample integrity in demanding industrial laboratory environments.

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Application	Description	Key Benefit
Semiconductor Grade Chemical Storage	Storage of ultra-pure photoresists, etchants, and cleaners used in wafer fabrication.	Prevents metallic ion contamination that can ruin semiconductor yields.
Trace Metal Analysis	Containing samples and standards for analysis via ICP-MS or AAS in environmental testing.	Ensures ultra-low background noise for accurate ppt-level detection.
Pharmaceutical Intermediate Handling	Transporting sensitive pharmaceutical intermediates that are reactive with glass or standard plastics.	Maintains biological and chemical purity throughout the production chain.
Hydrofluoric Acid Containment	Safe storage and dispensing of HF, which would otherwise dissolve glass containers.	Superior resistance to fluoride attack and enhanced operator safety.
Nuclear Waste Sampling	Collection of radioactive or highly corrosive waste samples for laboratory testing.	Long-term durability and resistance to radiation-induced degradation.
High-Purity Solvent Archiving	Long-term storage of HPLC or GC-MS grade solvents used in analytical chemistry.	Prevents the leaching of plasticizers or monomers into the solvent.
Bespoke Reaction Vessels	Customization into a jacketed or ported vessel for specialized chemical syntheses.	Provides a tailored environment for aggressive or high-purity reactions.

Parameter	Specification Details for PL-CP227
Model Identifier	PL-CP227
Material	100% Virgin Polytetrafluoroethylene (PTFE)
Nominal Capacity	15 Liters (Base Model)
Fabrication Method	High-Precision CNC Machined / Lathe Turned
Closure Type	Internal/External Threaded Sealing Lid
Surface Finish	Smooth, Non-Porous, Low Surface Energy
Operating Temperature Range	-200°C to +260°C
Chemical Resistance	Universal (Except molten alkali metals and elemental fluorine)
Leaching Profile	Low Background / Trace Analysis Grade
Customization Options	Dimensions, Volume, Lid Ports, Dip Tubes, Drain Valves

Application	Description	Key Benefit
Parameter	**Specification Details for PL-CP227**	
Wall Thickness	Reinforced for Industrial Durability	
Seal Integrity	Liquid-tight and Vapor-resistant	