

High Purity Ptfе Wide Mouth Sample Storage Drum Acid Resistant Customizable Fluoropolymer Barrel

Item Number: PL-CP30



Introduction

Optimize chemical storage with this customizable 50L PTFE wide mouth sample drum. Engineered for extreme acid resistance and high-purity applications, it offers superior durability, leak-proof sealing, and full bespoke fabrication for demanding industrial laboratory environments.

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Application	Description	Key Benefit
Semiconductor Processing	Storage and transport of ultra-pure etching acids and photoresist strippers.	Zero metal ion leaching ensures wafer yield integrity.
Pharmaceutical Synthesis	Containment of reactive intermediates and active pharmaceutical ingredients (APIs).	Chemical inertness prevents side reactions and contamination.
Trace Metal Analysis	Preparation and storage of calibration standards and concentrated acid blanks.	Ultra-low background noise for ICP-MS and AAS testing.
Petrochemical Testing	Handling of corrosive catalysts and high-temperature hydrocarbons.	Maintains structural stability under harsh organic solvent exposure.
Waste Management	Collection of hazardous and highly concentrated laboratory chemical waste.	Secure containment prevents environmental leaks and fume exposure.
Cryogenic Storage	Preservation of biological or chemical samples in liquid nitrogen environments.	Remains ductile and crack-resistant at absolute temperature extremes.
Battery Research	Storage of aggressive electrolytes and conductive salts for lithium-ion testing.	Resistance to electrochemical degradation and moisture ingress.
Food & Flavor Industry	Storage of concentrated essences and acidic flavor compounds.	FDA-compliant material ensures no flavor profile alteration.

Specification Category	Details for PL-CP30
Model Identifier	PL-CP30
Primary Material	100% Virgin High-Performance PTFE
Standard Capacity	50L (Customizable options available)
Vessel Type	Wide Mouth Sample Storage Drum
Temperature Range	-200°C to +260°C (-328°F to +500°F)
Chemical Resistance	Resistant to all acids, bases, solvents, and reactive agents
Wall Construction	Heavy-walled, precision-machined or molded
Closure Type	PTFE Screw Cap with leak-proof sealing geometry
Surface Finish	Super smooth, non-porous, crevice-free internal finish
Customization Range	Dimensions, wall thickness, porting, and accessories
Manufacturing Process	CNC Machined and/or High-Pressure Compression Molded
Safety Compliance	Chemically inert, non-leaching, and non-toxic