

High Purity Ptfе Centrifuge Tubes For Trace Analysis Custom Laboratory Centrifugation Containers With Racks

Item Number: PL-CP70



Introduction

Secure sample integrity with custom-engineered PTFE centrifuge tubes. Designed for zero leaching and 1000r/min durability, these high-purity laboratory containers support critical trace analysis in semiconductor and pharmaceutical workflows with bespoke sizing and rack options.

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Application	Description	Key Benefit
Trace Metal Analysis	Centrifugation of environmental and geological samples in concentrated acids for ICP-MS preparation.	Zero background contamination levels.
Semiconductor Processing	Handling of ultra-pure photoresists and etching chemicals that dissolve standard plastic labware.	Material purity matches industry standards.
Battery Research	Separation of lithium-ion electrolytes and active materials involving highly reactive fluorinated compounds.	Excellent chemical resistance to electrolytes.
Pharmaceutical Synthesis	Isolation of high-value active pharmaceutical ingredients (APIs) in harsh organic solvent systems.	High recovery rate due to non-stick surface.
Nuclear Medicine	Processing of radiopharmaceuticals where material durability and non-adsorption are critical for safety.	Radiation stability and easy decontamination.
Hydrofluoric Acid Handling	Separation and storage of HF-containing solutions used in glass etching or mineral digestion.	Total resistance to HF etching and damage.
Cryogenic Centrifugation	Use in ultra-low temperature centrifugation processes for biological or polymer research.	Maintains ductility and seal at low temps.

Specification	PL-CP70-50 (50ml Variant)	PL-CP70-100 (100ml Variant)	Custom Configurations
Base Material	High-Purity PTFE	High-Purity PTFE	PTFE / PFA Optional
Nominal Capacity	50 ml	100 ml	1ml to 1000ml+
Max Operating Speed	1000 r/min	1000 r/min	Variable per Wall Thickness
Temperature Range	-200°C to +260°C	-200°C to +260°C	Custom Range Possible
Wall Thickness	Standard Heavy Wall	Standard Heavy Wall	Custom CNC Defined
Bottom Shape	Conical / Round / Flat	Conical / Round / Flat	Bespoke Taper Profiles
Cap Type	Threaded Leak-Proof Seal	Threaded Leak-Proof Seal	Snap-fit or O-ring Sealed
Leaching/Extraction	Below Detection Limits	Below Detection Limits	Certified High-Purity Grades
Rack Compatibility	Custom Matched Racks	Custom Matched Racks	Multi-Position CNC Racks
Fabrication Method	Precision CNC Machining	Precision CNC Machining	Full Custom Bespoke Designs