

Ptfe Centrifuge Tube 1.5MI U Bottom Corrosion Resistant Screw Seal Custom High Purity Labware

Item Number: PL-CP288



Introduction

Engineered from high-purity PTFE, this 1.5ml U-bottom centrifuge tube offers exceptional chemical resistance and thermal stability for trace analysis and corrosive sample processing. Featuring a secure screw seal, it ensures absolute leak-proof performance in demanding modern laboratory environments.

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Application	Description	Key Benefit
Trace Metal Analysis	Preparation and storage of samples for ICP-OES and ICP-MS analysis.	Zero metal leaching ensures analytical accuracy.
Corrosive Centrifugation	Separation of precipitates in highly acidic or alkaline mother liquors.	Total material immunity to chemical attack.
Pharmaceutical Synthesis	Mixing and reacting small volumes of aggressive organic reagents.	Inert environment prevents secondary reactions.
Cryogenic Bio-banking	Long-term storage of biological samples in liquid nitrogen phases.	Remains ductile and leak-proof at -200°C.
Semiconductor Etchant Testing	Handling of high-purity etching solutions used in wafer processing.	Maintains the highest purity standards required by the industry.
Radioactive Isotope Handling	Containment of corrosive radioactive samples in nuclear research.	High durability reduces the risk of accidental exposure.
Volatile Solvent Storage	Storing high-vapor-pressure solvents that degrade standard plastics.	Screw cap prevents evaporation and material softening.

Parameter	Specification Details for PL-CP288
Base Model Number	PL-CP288
Material Construction	100% Virgin High-Purity PTFE (Polytetrafluoroethylene)
Nominal Capacity	1.5ml (Custom volumes available)
Bottom Geometry	U-Bottom (Rounded)
Closure Type	Precision-Machined Screw Cap
Seal Mechanism	Integrated PTFE-to-PTFE Threaded Compression
Operating Temperature Range	-200°C to +250°C (-328°F to +482°F)
Chemical Compatibility	Universal (Except molten alkali metals and fluorine gas)
Moisture Absorption	<0.01%
Sterilization Compatibility	Autoclave, ETO, Gamma (Note: Gamma may affect PTFE color)
Customization Options	Dimensions, Wall Thickness, Thread Pitch, Flange Addition
Pressure Resistance	Rated for standard high-speed centrifuge rotors (Custom reinforced walls available)