

High Purity Ptfе Crucible With Lid Corrosion Resistant Trace Analysis Labware For Strong Acid And Base Applications

Item Number: PL-CP87



Introduction

Optimize your laboratory trace analysis with this high-purity PTFE crucible featuring zero heavy metal leaching and absolute resistance to strong acids and bases. Precision engineered for demanding industrial chemical processing and high-performance sample digestion in specialized research environments worldwide now.

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Application	Description	Key Benefit
Trace Metal Analysis	Digestion of geological or biological samples using concentrated nitric or hydrofluoric acids.	Prevents background noise and contamination from heavy metals.
Semiconductor Processing	Etching and cleaning of silicon wafers and high-purity electronic components.	Resists aggressive etching chemistries while maintaining substrate purity.
Battery Research	Synthesis and testing of electrolyte materials and cathode/anode precursors.	Chemically inert to lithium salts and reactive organic carbonates.
Environmental Monitoring	Preparation of water and soil samples for heavy metal detection via ICP-OES.	Ensures that measured trace elements originate solely from the sample.
Pharmaceutical Synthesis	Reaction vessel for the production of high-purity APIs and intermediate compounds.	Eliminates risk of impurities leaching from the vessel walls into the product.
Petrochemical Testing	High-temperature analysis of oil additives and corrosive lubricant components.	Maintains structural integrity under exposure to hot hydrocarbons and sulfur.
Nuclear Chemistry	Handling and processing of radioactive isotopes in acidic aqueous solutions.	Radiation resistance and ease of decontamination due to non-porous surface.

Feature	Specification for PL-CP87	Notes
Model Number	PL-CP87	Core Reference Series
Material	High-Purity Virgin PTFE	100% Fluoropolymer Content
Nominal Capacity	Customizable	Standardized at 100ml or per request
Wall Thickness	Customizable	Engineered for specific thermal/pressure loads
Lid Configuration	Included / Customized	Friction fit or screw-cap options available
Temperature Resistance	-200°C to +250°C	Subject to specific pressure conditions
Chemical Compatibility	Universal (except molten alkali metals)	Exceptional resistance to HF, Aqua Regia, etc.
Surface Finish	High-Precision CNC Machined	Low RA value for minimal sample retention
Manufacturing Origin	Customized Products	Bespoke fabrication to industrial standards
Compliance	Trace Analysis Grade	Free from common industrial contaminants