

Custom Ptfе Dissolution Bottle 50MI With Pfa Ultra Fine Tubing Corrosion Resistant No Leaching

Item Number: PL-CP368



Introduction

Engineered for high-purity trace analysis, this custom PTFE dissolution bottle with PFA ultra-fine tubing provides superior chemical resistance and zero metal leaching, ensuring sample integrity and precise results in demanding laboratory environments across diverse global industrial sectors.

[Learn More](#)

Application	Description	Key Benefit
Semiconductor Grade Cleaning	Storage and delivery of high-purity etching solutions for silicon wafer processing.	Prevents metallic contamination that could ruin sensitive microchips.
Geochemical Trace Analysis	Acid digestion and dissolution of mineral samples for ICP-MS and ICP-OES analysis.	Ensures that background noise from leaching does not affect analytical data.
Hydrofluoric Acid Handling	Safe containment and transfer of HF for glass etching and mineral processing.	Provides long-term resistance to HF, which aggressively attacks glass and metals.
Environmental Monitoring	Collection and processing of water samples for heavy metal detection at parts-per-trillion levels.	Minimizes the adsorption of metal ions onto container walls for accurate results.
Pharmaceutical Synthesis	Reaction vessel for the synthesis of active pharmaceutical ingredients (APIs) involving harsh solvents.	Non-stick surface ensures maximum product recovery and easier cleaning validation.
Battery Research	Testing of electrolyte components and corrosive additives in next-generation battery technologies.	Resists organic solvents and provides stable performance during long-term testing cycles.
Nuclear Material Processing	Handling of radioactive isotopes in acidic media for specialized energy research.	Extreme durability and radiation resistance compared to standard lab consumables.

Parameter	Specification Details for PL-CP368
Model Identification	PL-CP368 Series
Body Material	High-Purity PTFE (Polytetrafluoroethylene)
Tubing Material	High-Purity PFA (Perfluoroalkoxy)
Nominal Capacity	50ml (Customizable)
Tubing Dimensions	2mm Outer Diameter * 1mm Inner Diameter (Ultra-Fine)
Tubing Configuration	Dual-tube (2*1) or Custom Porting Options
Temperature Range	-200°C to +260°C (Material Limits)
Chemical Resistance	Resistant to almost all acids, bases, and organic solvents
Surface Finish	Smooth, low-porosity CNC machined finish
Closure Type	Threaded PTFE cap with integrated PFA tube ports
Customization Options	Dimension adjustments, additional ports, varied tube lengths