

High Purity Pfa Volumetric Flask Acid Resistant Perfluoroalkoxy Trace Analysis Container Custom Mold Fabrication 1000MI 2000MI

Item Number: PL-CP399



Introduction

High-purity PFA volumetric flasks designed for trace analysis and strong acid environments. Featuring exceptional chemical resistance and ultra-low metal leaching, these 1000ml and 2000ml containers support custom mold fabrication for specific laboratory precision and performance requirements.

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Application	Description	Key Benefit
Trace Arsenic Detection	Processing and storage of digestion solutions for environmental monitoring and food safety.	Prevents analytical bias caused by container adsorption or metal leaching.
Semiconductor Processing	Handling of ultra-pure acids and etching solutions during wafer fabrication and cleaning.	Maintains ultra-high purity levels required for sub-micron manufacturing processes.
Pharmaceutical Quality Control	Preparation of standard solutions for heavy metal testing in drug development and manufacturing.	Ensures accurate concentration maintenance without interference from the vessel material.
Geochemical Analysis	Acid digestion of geological samples using concentrated HF and mineral acids for elemental profiling.	Withstands aggressive acid mixtures that would dissolve or contaminate glass containers.
Petrochemical Research	Storage and measurement of volatile organic compounds and corrosive catalysts in R&D labs.	Provides long-term durability and chemical resistance in harsh industrial research settings.
Battery Material Testing	Handling of electrolyte solutions and precursor chemicals for lithium-ion battery development.	Chemical inertness ensures that sensitive electrochemical properties are not altered by the container.
Environmental Water Sampling	Collection and stabilization of water samples for regulatory trace metal analysis in offshore or remote sites.	Lightweight, shatterproof construction combined with high-purity storage capabilities.

Feature	Specification Details for PL-CP399
Product Item Number	PL-CP399
Material Construction	100% Virgin High-Purity Perfluoroalkoxy (PFA)
Available Capacities	1000ml, 2000ml, and Custom Sizes
Chemical Compatibility	Universal (Strong Acids, Bases, Solvents, Oxidizers)
Contamination Profile	Ultra-low background for trace metal analysis
Temperature Resistance	Customizable based on application requirements
Fabrication Method	Support for custom mold processing and precision CNC machining
Closure Type	Precision-threaded PFA screw cap with leak-proof seal
Volumetric Accuracy	Class A standards or Bespoke Tolerance Specifications
Customization Options	Available for specialized dimensions, shapes, and volume markings