High Purity Pfa Volumetric Flask 1000Ml 2000Ml Constant Volume Bottle Acid Resistant Trace Analysis Custom Laboratory Labware

Item Number: PL-CP39

Introduction

High-purity PFA volumetric flasks for 1000ml and 2000ml precision measurement. Engineered for extreme acid resistance and ultra-trace analysis in semiconductor and pharmaceutical labs, these shatterproof vessels offer unmatched chemical inertness and custom CNC fabrication for demanding industrial research applications.

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Application	Description	Key Benefit
Semiconductor Manufacturing	Preparation of high-purity etching solutions and cleaning reagents.	Prevention of metallic ion contamination.
ICP-MS Trace Analysis	Dilution and storage of standards for ultra-trace element detection (ppt levels).	Minimal background noise and leaching.
Geochemical Research	Dissolution of rock samples using hydrofluoric acid in controlled volumes.	Resistance to HF which dissolves glass.
Pharmaceutical Synthesis	Volumetric measurement of sensitive catalysts and reactive organic compounds.	Non-reactive surface preserves purity.
Environmental Monitoring	Field sampling of seawater and soil extracts for isotopic analysis.	Shatterproof safety during transport.
Petrochemical Testing	Measurement of corrosive petroleum derivatives at elevated temperatures.	High thermal and chemical durability.
Nuclear Medicine	Handling of radioactive isotopes and aggressive radiopharmaceuticals.	Easy decontamination and chemical resistance.
Battery Research	Preparation of electrolyte solutions for lithium-ion and flow battery testing.	Long-term stability with reactive salts.

Parameter	Specifications for PL-CP39 series
Model Identification	PL-CP39
Standard Capacities	1000ml, 2000ml (Standard configurations)
Customization Options	Supports bespoke mold opening and custom CNC machining
Material Composition	100% High-Purity Perfluoroalkoxy (PFA)
Temperature Range	-200°C to +260°C (-328°F to +500°F)
Chemical Compatibility	Universal (Except molten alkali metals and elemental fluorine)
Surface Energy	~18-20 mN/m (Highly Hydrophobic)
Contamination Profile	Metal-free; no plasticizers or fillers
Trace Analysis Rating	Suitable for ICP-OES / ICP-MS sample preparation
Mechanical Properties	High flexibility and impact resistance
Cleaning Protocol	Autoclavable; compatible with acid-leaching procedures