

# High Purity Pfa Filtration Reagent Bottle With Squeezable Body And Integrated Bottom Sieve Plate For Trace Analysis

Item Number: PL-CP390



## Introduction

Engineered from ultra-high purity PFA, this squeezable filtration bottle features an integrated bottom sieve plate for trace analysis. Ensure ultra-low metal ion background and exceptional chemical resistance for demanding laboratory applications and high-sensitivity sample preparation and filtration analytical workflows.

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Application	Description	Key Benefit
Trace Element Analysis	Storage and filtration of samples for ICP-MS and ICP-OES detection in geochemistry and environmental science.	Prevents background noise by eliminating metal ion leaching from container walls.
Semiconductor Wet Chemistry	Handling and filtration of ultra-pure photoresists, etchants, and cleaning solvents used in wafer processing.	Ensures the highest levels of chemical purity to prevent microscopic defects in components.
Pharmaceutical Quality Control	Preparation of high-sensitivity standards and mobile phases for HPLC and LC-MS/MS analysis of drug compounds.	Minimizes secondary contamination and sample loss due to adsorption on surfaces.
Heavy Metal Detection	Preparation and storage of 2% Nitric Acid (HNO <sub>3</sub> ) diluents and rinsing solutions for analytical equipment maintenance.	Maintains the stability of acid concentrations without introducing metallic impurities.
Acid Digestion Workflows	Integrated filtration of mineral acid digests after hydrothermal or microwave-assisted sample preparation.	Streamlines the workflow by combining filtration and storage into a single high-purity vessel.
Environmental Monitoring	Collection and on-site filtration of water samples for the detection of trace organic and inorganic pollutants.	High durability and chemical resistance ensure sample integrity during transport and processing.

Specification Category	Parameter Details (Model PL-CP390)	Customization Capability
<b>Material Construction</b>	100% High-Purity PFA (Perfluoroalkoxy)	Bespoke material blends (e.g., PTFE components) available
<b>Body Configuration</b>	Soft-walled, squeezable design for pressure-assisted filtration	Variable wall thicknesses for specific flexibility needs
<b>Filtration Component</b>	Integrated PFA bottom sieve plate	Customizable pore size, hole distribution, and plate thickness
<b>Volumetric Capacity</b>	Standard sizes available from 30ml to 2000ml	Fully customizable volumes and height/diameter ratios
<b>Temperature Tolerance</b>	-200°C to +260°C continuous operating range	Specialized designs for high-pressure or cryo-specific use
<b>Chemical Resistance</b>	Compatible with HF, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl, and organic solvents	Verified against all standard laboratory reagents
<b>Closure Type</b>	High-precision PFA screw cap with standard or GL thread	Custom cap designs including septum ports or tubing inlets
<b>Surface Finish</b>	Ultra-smooth, non-porous CNC machined and molded surfaces	Specific roughness (Ra) requirements can be met
<b>Processing Method</b>	Injection molding and precision CNC machining	Able to produce complex, non-standard geometries