

# High Purity Pfa Beakers With Handles Large Capacity Chemical Resistant Teflon Laboratory Beakers And Custom Cleaning Baskets

Item Number: PL-CP44



## Introduction

Engineered from premium high-purity PFA, these chemical-resistant laboratory beakers and customizable soaking baskets provide exceptional thermal stability and ultra-low trace metal leaching for critical semiconductor, environmental analysis, and pharmaceutical research applications.

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Application	Description	Key Benefit
Semiconductor Etching	Handling of high-purity acids for wafer cleaning and etching processes in cleanroom environments.	Zero trace metal contamination
Trace Metal Analysis	Sample digestion and storage for ICP-MS and ICP-OES where PPT-level accuracy is required.	Ultra-low leaching profile
Pharmaceutical Synthesis	Mixing and reacting aggressive pharmaceutical intermediates that would degrade standard glass.	Superior chemical inertness
Environmental Testing	Preparation of soil and water samples involving concentrated nitric and hydrochloric acids.	Durable against corrosive vapors
Battery Research	Handling of corrosive electrolytes and lithium salts at varying temperature cycles.	Wide thermal stability range
Petrochemical Refining	Storage and transport of high-temperature hydrocarbon samples and caustic catalysts.	Long-term structural integrity
Cryogenic Storage	Management of biological or chemical samples in liquid nitrogen and extreme cold.	Maintains flexibility at -200°C
Automated Cleaning	Use of custom baskets for ultrasonic or soak-cleaning of precision industrial components.	High-volume workflow efficiency

Specification Category	Parameter Details	PL-CP44 Capability
Material Foundation	Primary Polymer	High-Purity Perfluoroalkoxy (PFA)
Capacity Range	Standard and Custom Volumes	250ml, 1L, and Custom Large Capacity
Temperature Resistance	Operating Range	-200°C to +260°C
Chemical Resistance	Acid, Base, and Solvent Stability	Universal Resistance (Customizable configurations)
Physical Design	Handling Options	Integrated Handle or Standard Rim
Accessory Options	Cleaning & Storage	Customizable Soaking Baskets & Lids
Manufacturing Method	Fabrication Process	Injection Molding / Custom CNC Machining
Surface Finish	Surface Roughness	Optimized for Trace Analysis (Customizable)
Dimensional Specs	Height, Diameter, Wall Thickness	Customizable to Client Requirements
Compliance	Material Certification	High-Purity Industrial Grade