

# High Purity Pfa Beakers With Handles And Cleaning Baskets For Trace Analysis And Industrial Chemical Processing

Item Number: PL-CP195



## Introduction

Engineered for extreme chemical resistance these high purity PFA beakers with handles and cleaning baskets ensure contamination free sample handling available in multiple volumes with full CNC customization options for demanding industrial trace analysis and hazardous chemical processing environments

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Application	Description	Key Benefit
Semiconductor Wafer Etching	Handling and mixing of high-purity etching solutions like HF and Buffered Oxide Etch (BOE).	Prevents ionic contamination and ensures consistent etching rates.
Trace Metal Analysis	Preparation of environmental and biological samples for ICP-MS and ICP-OES analysis.	Minimizes background noise and prevents sample loss through absorption.
Pharmaceutical Synthesis	Reaction vessel for the production of active pharmaceutical ingredients (APIs) involving corrosive catalysts.	Ensures high purity levels and compliance with stringent FDA-related material standards.
Battery Research	Handling and mixing of advanced lithium-ion battery electrolytes and corrosive battery components.	Superior resistance to organic solvents and chemical stability during testing.
Petrochemical Testing	Analysis of crude oil derivatives and catalysts involving high-temperature acid digestion.	Maintains structural integrity under heat while resisting heavy chemical attack.
Nuclear Energy Research	Storage and processing of radioactive or highly corrosive isotopes in specialized lab settings.	Long-term durability and resistance to radiation-induced degradation.

Specification Category	PL-CP195 Detail
Primary Material	High-Purity Perfluoroalkoxy (PFA)
Volume Capacity	Fully Customizable (e.g., 250ml, 1L, and larger variants)
Handle Configuration	Custom Designed Integrated or Removable Handles
Accessory Options	Customizable Cleaning Baskets / Soaking Inserts
Thermal Stability Range	-200°C to +260°C
Chemical Compatibility	Universal (Includes HF, Aqua Regia, Organic Solvents)
Surface Finish	High-Precision CNC Machined / Ultra-Smooth
Dimensional Tolerances	Per Client Specification / Engineering Drawing
Graduation Markings	Optional Custom Molded or Machined Graduations
Lid/Cap Compatibility	Bespoke PFA Lids Available Upon Request