

High Purity Pfa Beaker With Handle And Large Capacity Washable Soak Basket Multi Spec Teflon Laboratory Labware

Item Number: PL-CP409



Introduction

High-performance PFA beakers and soak baskets designed for trace analysis and corrosive chemical handling. These multi-spec Teflon vessels feature ergonomic handles and large capacities, ensuring chemical inertness, thermal stability, and easy cleaning for demanding industrial and laboratory applications.

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Application	Description	Key Benefit
Semiconductor Cleaning	Immersion of silicon wafers and components in high-purity etching solutions using the soak basket.	Prevents metallic contamination and withstands aggressive etching acids.
Trace Metal Analysis	Preparation and storage of samples for ultra-trace element detection in geochemical and environmental labs.	Lowest possible leaching levels for PPT-level accuracy.
Pharmaceutical Synthesis	Reaction vessel for the production of active pharmaceutical ingredients (APIs) involving corrosive catalysts.	Ensures no cross-contamination and survives wide temperature swings.
Battery Research	Testing of electrolyte stability and electrode components in highly reactive chemical environments.	Long-term durability against corrosive battery chemistries.
Acid Digestion	High-temperature breakdown of solid samples using concentrated nitric or hydrochloric acids.	Safe handling of boiling acids with integrated safety handles.
Industrial Part Degreasing	Using the large-capacity soak basket to clean precision machined parts in volatile organic solvents.	Universal solvent resistance and easy drainage.
Solar Cell Production	Acid texturing and cleaning of photovoltaic substrates in multi-spec PFA containers.	Consistent performance in high-throughput manufacturing lines.

Specification Category	Parameter Details for PL-CP409 Series
Material Composition	100% Virgin High-Purity PFA (Perfluoroalkoxy)
Available Capacities	250ml, 500ml, 1L, 2L, and Custom Large Capacities (up to 10L+)
Temperature Resistance	-200°C to +260°C (-328°F to +500°F)
Handle Configuration	Integrated Side Handle (Standard on 1L+; Optional on smaller sizes)
Basket Compatibility	Custom-fit Soak Baskets with variable perforation patterns
Wall Thickness	Standard Heavy-Wall Design or Custom CNC Machined Thickness
Base Design	Flat-bottom for Hot Plate Stability or Rounded for Specialized Agitation
Chemical Compatibility	Universal (Except molten alkali metals and fluorine at high temperatures)
Fabrication Method	Injection Molding or Precision CNC Machining for Custom Geometries

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Trace Element Levels Sub-ppb levels for standard units; PPT-grade available upon request