

# High Purity Ptfе Deep Layer Sampler 22ml Corrosion Resistant Customizable Fluoropolymer Sampling Bucket With Handle

Item Number: PL-CP384



## Introduction

Engineered for high-purity fluid extraction, this customizable PTFE deep layer sampler ensures zero contamination and extreme chemical resistance in harsh industrial environments, featuring a precision-machined bucket with a secure handle for reliable deep-level sampling in corrosive chemical processing.

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Application	Description	Key Benefit
Semiconductor Manufacturing	Sampling of high-purity etching chemicals and photoresist solvents during the wafer fabrication process.	Prevents metallic ion contamination in ultra-clean environments.
Petrochemical Analysis	Extraction of crude oil or refined fuel samples from storage tanks at specific depth intervals.	Resistance to hydrocarbons and volatile organic compounds.
Pharmaceutical Processing	Retrieval of active pharmaceutical ingredients (APIs) from reaction vessels during synthesis.	Ensures zero leaching and maintains biological sample integrity.
Environmental Monitoring	Deep-water sampling in acidic or alkaline wastewater treatment facilities and tailings ponds.	Corrosion-proof performance in harsh outdoor industrial sites.
Battery Research	Sampling of electrolytes and corrosive chemical mixtures within hydrothermal synthesis or test cells.	Stable performance in high-temperature and reactive environments.
Acid and Alkali Production	Monitoring concentration levels in bulk storage of sulfuric, hydrochloric, or nitric acids.	Total immunity to corrosion, extending the lifespan of the tool.
Food and Beverage	Testing for impurities in large-scale storage vats of acidic or oily food-grade products.	Non-toxic, easy-to-clean surface meets strict hygiene standards.

Specification	Detail for PL-CP384
Model Item Number	PL-CP384
Material Construction	100% Virgin PTFE (Polytetrafluoroethylene)
Nominal Capacity	22ml (Fully customizable upon request)
Configuration Type	Cylindrical bucket with integrated lifting handle
Temperature Resistance Range	-200°C to +260°C (-328°F to +500°F)
Chemical Compatibility	Universal resistance (except molten alkali metals and elemental fluorine)
Customization Options	Depth-specific handle lengths, varied volumes, and specialized lid closures
Fabrication Method	End-to-end custom CNC machining for high precision
Surface Porosity	Non-porous, hydrophobic surface finish
Sterilization Compatibility	Autoclavable; compatible with ETO and chemical sterilization