

# Customizable 22ml PTFE Cup Deep Layer Sampler And Corrosion Resistant Cylinder With Handle

Item Number: PL-CP179



## Introduction

This high-purity PTFE sampler and deep-layer cylinder offers ultimate corrosion resistance for demanding industrial environments. Fully customizable to meet specific laboratory or field sampling requirements, this robust system ensures precise and contaminant-free fluid collection in harsh chemical processes.

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Application	Description	Key Benefit
Semiconductor Wet Processing	Sampling of ultra-pure acids and photoresist chemicals from production lines.	Prevents trace metal contamination of the supply chain.
Pharmaceutical API Synthesis	Extraction of reaction intermediates from corrosive organic synthesis environments.	Ensures material compatibility with aggressive solvents.
Environmental Water Testing	Deep-layer sampling of groundwater or industrial wastewater containing volatile pollutants.	Maintains sample integrity from depth to surface.
Petrochemical Analysis	Collection of hot oil and hydrocarbon samples from refinery storage units.	Operates reliably at high temperatures and pressures.
Nuclear Waste Monitoring	Sampling of radioactive liquids and corrosive sludges in containment facilities.	Resists radiation degradation and chemical attack.
Specialty Chemical Production	Quality control sampling of bulk corrosive reagents and catalysts.	Long-service life reduces consumable replacement costs.
High-Purity Trace Analysis	General laboratory use for preparing standards and handling sensitive reagents.	Minimal surface area adsorption for accurate results.
Deep-Sea Research	Deep-layer fluid collection in marine environments for chemical oceanography.	Resists saltwater corrosion and extreme hydrostatic pressure.

Specification Category	Parameter	PL-CP179 Capability
<b>Material Properties</b>	Base Material	100% Virgin PTFE (Polytetrafluoroethylene)
	Optional Materials	PFA (Perfluoroalkoxy) for enhanced transparency
	Chemical Resistance	Universal (Except molten alkali metals and fluorine)
<b>Temperature Range</b>	Operating Temperature	-200°C to +260°C (-328°F to +500°F)
<b>Custom Dimensions</b>	Volume Capacity	22ml (Standard) or Custom-Defined per client
	Sampling Depth	Fully customizable length for deep-layer access
	Wall Thickness	Optimized for structural integrity or thermal transfer
<b>Design Features</b>	Handle Type	Integrated PTFE handle or custom tethering ring
	Closure Type	Optional threaded caps or sealing mechanisms
	Surface Finish	Ra < 0.4µm high-purity CNC finish
<b>Compliance</b>	Manufacturing	ISO-certified precision CNC fabrication
	Purity Standards	Trace analysis grade, zero-additive production