

Corrosion Resistant White PTFE Solid Sampler Manual Sampling Tool Customizable Length

Item Number: PL-CP160



Introduction

Optimize your chemical process with our corrosion-resistant white PTFE solid sampler. Featuring customizable lengths and manual operation, this high-purity sampling tool ensures contaminant-free retrieval of materials in demanding laboratory and industrial environments for precise trace analysis and quality control assurance.

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Application	Description	Key Benefit
Pharmaceutical API Sampling	Extraction of active pharmaceutical ingredients from bulk drums for quality verification.	Prevents cross-contamination and maintains USP compliance.
Petrochemical Analysis	Collection of solid catalysts or granular additives from high-stress process streams.	Resists degradation from aggressive hydrocarbons and acidic reagents.
Semiconductor Material Prep	Handling of ultra-pure powders used in wafer fabrication and chemical vapor deposition.	Eliminates metallic ion trace contamination in sensitive electronics processes.
Food and Beverage Testing	Sampling of powdered ingredients, flavorings, or preservatives in large-scale production.	FDA-compliant material ensures no flavor transfer or chemical toxicity.
Environmental Soil Sampling	Retrieval of soil or sediment cores for trace metal analysis in hazardous waste sites.	Robust enough for field use while remaining chemically inert to pollutants.
Specialty Chemical Production	Quality control sampling of corrosive solid reagents and intermediate compounds.	Long-service life in environments that typically destroy stainless steel tools.
Battery Research	Sampling of cathode and anode powders during the development of lithium-ion technologies.	Maintains moisture-free and contaminant-free handling of sensitive salts.
Catalyst Recovery	Harvesting and testing of noble metal catalysts from industrial reactor beds.	Ensures the purity of the catalyst is not compromised during the recovery phase.

Specification Category	Parameter Detail	PL-CP160 Custom Configuration
Model Identification	Item Number	PL-CP160
Material Properties	Primary Material	100% Virgin PTFE (Polytetrafluoroethylene)
	Chemical Resistance	Universal (Excluding molten alkali metals)
	Thermal Operating Range	-200°C to +260°C
Physical Dimensions	Total Tool Length	Fully Customizable (per client requirement)
	Outer Shaft Diameter	Customizable to fit specific vessel ports
	Sample Chamber Volume	Customizable based on required analyte mass
Operational Data	Sampling Method	Manual Actuation (Custom Mechanism Available)
	Surface Finish	Precision Machined (Ra < 0.8µm)

Application	Description	Key Benefit
Specification Category	Parameter Detail	PL-CP160 Custom Configuration
	Color	Opaque White
Compliance	Material Grade	Laboratory Grade, High Purity
	Fabrication Method	End-to-end Custom CNC Machining