

High Temperature Ptfе Solid Sampler Corrosion Resistant White Reusable Biopharmaceutical Sampling Tool

Item Number: PL-CP148



Introduction

High-performance PTFE solid samplers designed for biopharmaceutical and high-purity trace analysis. Featuring extreme chemical resistance and zero precipitation, these reusable white sampling tools ensure sample integrity in demanding industrial environments across a wide temperature range for total laboratory reliability.

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Application	Description	Key Benefit
Biopharmaceutical Powder Sampling	Extraction of active pharmaceutical ingredients (APIs) from bulk storage containers for quality control testing.	Ensures no leaching of contaminants into high-value pharmaceutical batches.
High-Purity Chemical Production	Sampling of aggressive reagents like hydrofluoric acid or concentrated nitric acid during the synthesis process.	Total corrosion resistance ensures operator safety and sample purity.
Cryogenic Material Retrieval	Taking solid samples from liquid nitrogen storage tanks or ultra-low temperature freezers.	Material remains ductile and robust at sub-zero temperatures without becoming brittle.
Semiconductor Grade Material QC	Testing of high-purity silicon powders or photoresist additives used in wafer fabrication.	Zero-precipitation properties protect against metal ion contamination in sensitive electronics.
Petrochemical Solid Analysis	Sampling of catalyst beads and granulated polymers directly from high-temperature process lines.	Maintains structural integrity at elevated temperatures while resisting heavy hydrocarbons.
Trace Metal Analysis	Gathering environmental soil or solid waste samples where parts-per-billion (ppb) accuracy is required.	Eliminates the risk of trace element interference commonly found in metal or low-grade plastic samplers.
Food & Beverage Additive Testing	Quality assurance sampling of concentrated food dyes, flavorings, and preservatives in a sterile environment.	FDA-compliant material properties ensure safety and prevent flavor carry-over between batches.

Parameter	Specification Detail for PL-CP148
Base Material	High-Density Virgin PTFE (Polytetrafluoroethylene)
Product Identifier	PL-CP148 Series
Operating Temperature Range	-200°C to +260°C (-328°F to +500°F)
Chemical Compatibility	Universal (Except molten alkali metals and fluorine gas)
Surface Finish	High-Precision Polished White (Non-porous)
Precipitation Level	Zero detectable precipitation / Trace analysis grade
Manufacturing Method	Full Custom CNC Fabrication
Customization Options	Adjustable lengths, diameters, and sample chamber volumes
Sterilization Compatibility	Autoclave, ETO, and concentrated chemical disinfectant resistant
Mechanical Configuration	Bespoke designs available based on PL-CP148 core architecture