

Custom Ptfе Pharmaceutical Sampling Scoop Low Leaching Cylindrical Chemical Powder Sampler Zero Contamination High Purity Laboratory Shovel

Item Number: PL-CP263



Introduction

Premium custom PTFE sampling scoops engineered for high-purity pharmaceutical and chemical applications. These ultra-pure, low-leaching tools ensure zero contamination during material transfer, offering exceptional chemical resistance and non-stick performance for demanding industrial sampling and critical laboratory testing research processes.

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Application	Description	Key Benefit
Pharmaceutical API Sampling	Collection of Active Pharmaceutical Ingredients during various stages of synthesis and quality control.	Prevents cross-contamination and ensures no metallic leaching into medical-grade compounds.
Trace Metal Analysis	Preparation and handling of samples for environmental monitoring or high-purity chemical testing.	Maintains ultra-low blank values for accurate detection of trace elements via ICP-MS.
Battery Material Research	Transferring sensitive electrolyte powders and lithium-based compounds in controlled environments.	Non-reactive surface prevents contamination that could affect electrochemical performance.
Corrosive Chemical Handling	Manual sampling of concentrated hydrofluoric acid, sulfuric acid, or aggressive alkaline solutions.	Total resistance to chemical attack, protecting the operator and the sample integrity.
Semiconductor Cleanroom Use	Handling of ultra-pure chemical precursors and cleaning agents in wafer fabrication facilities.	Zero particle shedding and low outgassing maintain the strict cleanliness standards of cleanroom environments.
Medical Device Manufacturing	Dispensing bio-compatible resins or handling small components during the manufacturing process.	Virgin PTFE ensures no toxicity or biocompatibility risks are introduced to medical products.
Food and Flavor Industry	Sampling of concentrated essences, oils, and additives that require high-purity handling.	FDA-compliant material properties ensure no flavor carryover or contamination.

Feature	Specification Details (Model PL-CP263 Series)
Model Identifier	PL-CP263 (Custom Configurable)
Material Composition	100% Virgin PTFE (Polytetrafluoroethylene)
Purity Grade	Trace Analysis / Pharmaceutical Grade
Operating Temperature Range	-200°C to +260°C (-328°F to +500°F)
Chemical Resistance	Universal (Except molten alkali metals and fluorine gas at high temp)
Surface Finish	High-precision CNC Machined / Ultra-Smooth
Dissolution / Leaching	Zero detectable organic or metallic leaching
Coefficient of Friction	0.05 to 0.10
Dielectric Strength	>18 kV/mm

Application	Description	Key Benefit
Feature	Specification Details (Model PL-CP263 Series)	
Customization Options	Scoop diameter, handle length, cylindrical volume, tip geometry	
Dimensions	Custom manufactured to client specifications	
Design Type	Cylindrical scoop, tapered shovel, or bespoke sampling head	