

Custom Ptfе Scraper Shovel And Sampling Spoon Dual Use Corrosion Resistant Low Background White Fluoropolymer Tool

Item Number: PL-CP216



Introduction

Optimize your laboratory sampling with our custom PTFE scraper shovels and dual-use spoons. These corrosion-resistant, low-background tools ensure high-purity trace analysis and chemical stability across demanding industrial environments. Contact us for bespoke fluoropolymer fabrication and high-volume orders.

[Learn More](#)

Application	Description	Key Benefit
Trace Metal Analysis	Handling of samples for environmental and geological testing in ultra-clean environments.	Prevents ion contamination for ppt-level accuracy.
Pharmaceutical Compounding	Scraping and measuring active pharmaceutical ingredients (APIs) during formulation.	Chemical inertness ensures no drug-tool interaction.
Semiconductor Processing	Cleaning of quartz tubes and handling of high-purity precursors in wafer fabrication.	High-temperature stability and zero outgassing.
Petrochemical Laboratory	Sampling of aggressive catalysts and refined products at varying temperatures.	Resistance to hydrocarbons and corrosive acids.
Cryogenic Material Handling	Recovery of frozen samples and precipitates from liquid nitrogen storage.	Retains flexibility and strength at sub-zero temperatures.
Battery Material Research	Transferring lithium-ion battery slurry and cathode materials in moisture-sensitive environments.	Non-reactive surface prevents sample degradation.
Food Safety Testing	Collecting samples for pesticide and toxin residue analysis across various food matrices.	Compliance with high-purity food contact standards.
Custom Chemical Reactors	Reaching into bespoke glass vessels for material recovery and reactor wall cleaning.	Customizable dimensions for specialized glassware.

Parameter	Specification Detail (PL-CP216)
Product Identifier	PL-CP216
Material Construction	100% Virgin High-Purity PTFE (Polytetrafluoroethylene)
Fabrication Method	Full Custom CNC Machining
Chemical Resistance	Universal (pH 0-14), resistant to all known solvents and acids
Temperature Range	-200°C to +260°C (-328°F to +500°F)
Color	Opaque White (Natural PTFE)
Surface Finish	Smooth, low-friction, non-porous
Background Level	Ultra-low trace element background
Configuration	Dual-use (Scraper/Shovel and Spoon/Scoop)
Customization Options	Overall length, blade width, spoon capacity, handle diameter
Sterilization	Autoclavable, compatible with ETO and chemical sterilization
Density	2.14 - 2.19 g/cm ³