

Corrosion Resistant Ptfе Sampling Spoon For Pharmaceutical Research And Trace Analysis

Item Number: PL-CP226



Introduction

Premium food-grade PTFE sampling spoons for pharmaceutical R&D and chemical labs. These 10ml corrosion-resistant spatulas offer ultra-low background levels for trace analysis and high-purity applications. Customizable designs are available to meet specific industrial laboratory requirements.

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Application	Description	Key Benefit
Pharmaceutical R&D	Accurate weighing and transfer of active pharmaceutical ingredients (APIs) during formulation development.	Prevents chemical interaction with sensitive drug compounds.
Trace Metal Analysis	Preparation of standards and samples for ICP-OES and ICP-MS analysis in environmental testing.	Eliminates sample contamination from metal-based tools.
Semiconductor Manufacturing	Handling of high-purity precursors and etching agents used in wafer fabrication processes.	Maintains ultra-high purity levels required for microelectronics.
Food & Beverage Testing	Sampling of acidic or fatty food components for quality control and nutritional labeling.	Food-grade material ensures no leachables enter the food chain.
Petrochemical Analysis	Collection and preparation of fuel and lubricant samples containing aggressive additives.	Superior resistance to organic solvents and high-temperature oils.
Forensic Science	Precise collection of evidence materials where sample integrity must be legally defensible.	Minimal background noise ensures accurate analytical results.
Hydrofluoric Acid Handling	Routine sampling in laboratories working with HF, where glass and metal tools are dissolved.	Complete structural integrity in the presence of concentrated fluorides.

Feature	Specification for PL-CP226
Model Number	PL-CP226
Primary Material	High-Purity Virgin PTFE (Polytetrafluoroethylene)
Standard Volume	10ml (Base design; customizable)
Dimensional Variability	Customizable handle length and bowl depth
Chemical Resistance	Full resistance to pH 0-14 (Universal)
Operating Temperature	-200°C to +260°C
Surface Finish	High-smoothness machined finish
Sterilization Compatibility	Autoclavable, ETO, or Gamma Radiation
Trace Element Purity	Low background suitable for ppb/ppt levels
Regulatory Compliance	Food-grade material standards
Fabrication Method	Precision CNC Machining or Isostatic Molding