

Custom Ptfе Double Headed Lab Spatula Chemical Resistant Non Stick Pharmaceutical Grade Fluoropolymer Sampling Tool

Item Number: PL-CP129



Introduction

Premium custom PTFE double-headed lab spatulas offer exceptional chemical resistance and non-stick performance for pharmaceutical and food-grade applications. These high-purity fluoropolymer sampling tools ensure contamination-free handling and are fully customizable to meet your specific industrial laboratory requirements.

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Application	Description	Key Benefit
Pharmaceutical Compounding	Transferring active pharmaceutical ingredients (APIs) during the formulation process.	Zero cross-contamination and high material recovery rates.
Trace Metal Analysis	Handling samples for ICP-MS or atomic absorption spectroscopy where metal contamination must be avoided.	Metal-free construction ensures analytical accuracy and sample integrity.
Battery Research	Manipulating electrolyte components and electrode materials in lithium-ion battery development.	Chemical resistance to aggressive salts and organic solvents.
Food Quality Control	Sampling ingredients and additives in commercial food production environments.	FDA-compliant material that is easy to sterilize and non-reactive.
Cryogenic Material Handling	Retrieving samples from ultra-low temperature storage or liquid nitrogen dewars.	Material remains flexible and does not become brittle at sub-zero temperatures.
Petrochemical Testing	Mixing and scraping heavy oils, catalysts, and crude samples in refinery laboratories.	Resistant to hydrocarbon-based solvents and high-heat environments.
Semiconductor Processing	Handling high-purity wafers or chemical etchants in cleanroom environments.	Minimal particle generation and extreme resistance to hydrofluoric acid.

Parameter	Specification for PL-CP129
Material Construction	100% Virgin PTFE (Polytetrafluoroethylene)
Design Type	Double-Headed (Spoon/Spatula, Dual Spoon, or Dual Spatula)
Customization Level	Fully Customizable Dimensions and Geometry
Standard Lengths	Custom-built from 100mm to 500mm+
Head Width Options	Customizable from 5mm to 50mm
Chemical Resistance	Universal (except molten alkali metals and elemental fluorine)
Operating Temperature	-200°C to +260°C (-328°F to +500°F)
Surface Finish	High-precision smooth CNC finish (Ra < 0.8 μm)
Compliance	Food Grade / Pharmaceutical Grade USP Class VI compatible
Cleaning Methods	Autoclavable, compatible with ultrasonic cleaning and strong etchants