

Custom Ptfе Double Head Lab Spatula Scraper Non Stick Corrosion Resistant Chemical Handling Tool

Item Number: PL-CP303



Introduction

Premium custom PTFE double-headed laboratory spatulas engineered for rigorous pharmaceutical and food testing. These chemically inert, non-stick instruments provide superior heat resistance and simplified cleaning for high-purity sample manipulation across demanding industrial processes and advanced scientific research environments.

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Application	Description	Key Benefit
Pharmaceutical Formulation	Handling and weighing of active pharmaceutical ingredients (APIs) and excipients.	Prevents cross-contamination and ensures zero reaction with reactive drug compounds.
Trace Element Analysis	Sample preparation for ICP-MS and other high-sensitivity analytical techniques.	Eliminates metallic and organic leaching for ultra-low detection limits.
Food Safety Testing	Sampling and testing of acidic or fatty food products during quality control.	Non-stick surface ensures easy cleaning and compliance with food-grade safety standards.
Battery Research	Manipulation of lithium salts and corrosive electrolytes in glovebox environments.	High resistance to electrolytes and non-conductive properties for safe handling.
Petrochemical Testing	Scraping and transferring viscous crude oil samples or polymer resins.	Superior non-stick performance allows for the complete transfer of difficult materials.
Cryogenic Research	Handling of materials stored at liquid nitrogen temperatures in research labs.	Maintains flexibility and structural integrity at ultra-low temperatures without becoming brittle.
Bio-processing	Dispensing of sensitive reagents in cell culture or protein purification workflows.	Biologically inert surface prevents protein adsorption and ensures sample purity.
Forensic Science	Collection and transfer of evidence samples where chemical purity is paramount.	Inert material prevents the alteration of chemical signatures in sensitive evidence.

Parameter	Specification Detail for PL-CP303
Product Item Number	PL-CP303
Material Construction	100% Virgin High-Performance PTFE (PFA Option Available)
Manufacturing Process	End-to-end Precision CNC Machining
Design Format	Double-Headed (Spoon/Scraper or Custom Dual Profiles)
Temperature Resistance	-200°C to +260°C (-328°F to +500°F)
Chemical Resistance	Resistant to all chemicals except molten alkali metals and fluorine gas
Surface Finish	High-precision machined smooth finish (Ra < 0.4µm)
Customization Options	Overall length, head geometry, handle diameter, and blade taper

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Flammability	UL 94 V-0 (Non-flammable)	
Water Absorption	< 0.01% (ASTM D570)	
Dielectric Strength	18-22 kV/mm (Insulating material)	