

Ptfe Shovel Pharmaceutical Chemical Material Shovel Strong Corrosion Resistant 1M Handle

Item Number: PL-CP431



Introduction

Procure the ultimate chemical-resistant solution with our PTFE material shovel. Designed for pharmaceutical and industrial chemical handling, this customizable 1m handle tool offers unmatched purity, non-stick performance, and durability in the most aggressive corrosive environments available for global shipping today.

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Application	Description	Key Benefit
Pharmaceutical API Synthesis	Handling and transferring active pharmaceutical ingredients in batch reactors.	Prevents batch contamination and ensures 100% material recovery.
Bulk Acid Handling	Moving crystalline solids in concentrated acid baths or etching stations.	Absolute resistance to fuming acids and aggressive corrosive media.
Semiconductor Processing	Sampling and cleaning in ultra-high purity wet benches and chemical delivery systems.	Zero metallic ion leaching preserves wafer integrity and chemical purity.
Battery Electrolyte Prep	Mixing and transferring conductive salts and aggressive solvents for lithium-ion production.	High thermal stability and chemical neutrality across various solvent bases.
Food & Flavoring Production	Dispensing concentrated flavor oils and acidic food additives in large-scale mixing vats.	FDA-compliant material with non-stick properties for easy sanitation.
Hazardous Waste Recovery	Scrapping and collecting hazardous chemical waste from containment sumps.	Ensures operator safety through extended reach and durable construction.
Cryogenic Material Handling	Manipulating materials stored in liquid nitrogen or ultra-low temperature freezers.	Retains flexibility and impact resistance at sub-zero temperatures.
Catalyst Recovery	Extracting expensive catalysts from deep reaction vessels for regeneration.	Chemically inert surface prevents catalyst poisoning or adhesion.

Parameter	Specification Details
Model Number	PL-CP431
Material Composition	100% Virgin High-Purity PTFE (Polytetrafluoroethylene)
Handle Length	1000mm (Standard) / Fully Customizable Lengths Available
Handle Diameter	Optimized for Industrial Grip (Customizable)
Shovel Head Width	Customizable per user requirements
Shovel Head Depth	Customizable per user requirements
Operating Temperature	-200°C to +260°C (-328°F to +500°F)
Chemical Resistance	Universal (pH 0-14); Resistant to all organic solvents
Surface Finish	Smooth CNC Machined (Low Friction)
Sterilization Method	Autoclavable, ETO, and Gamma compatible

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Contamination Profile	Trace metal free; Non-leaching	
Fabrication Method	End-to-end Custom CNC Fabrication	