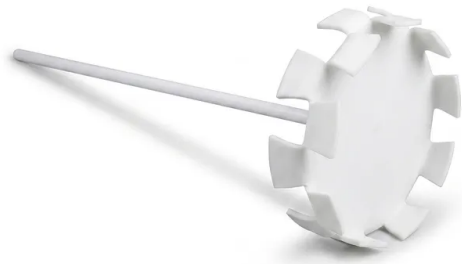


Ptfe Dispersion Disk Food Cosmetic Grade Non Stick Corrosion Resistant Large Stirring Paddle Customizable Impeller

Item Number: PL-CP318



Introduction

High-performance PTFE dispersion disk designed for food and cosmetic processing. This non-stick, corrosion-resistant stirring paddle ensures zero leaching and superior chemical inertness. Custom-engineered dimensions available to meet specific industrial mixing requirements and high-purity laboratory standards today for B2B professionals.

[Learn More](#)

Application	Description	Key Benefit
Cosmetic Emulsification	High-speed dispersion of oils, waxes, and active ingredients into stable creams and lotions.	Prevents product buildup and ensures batch-to-batch purity without scent carryover.
Pharmaceutical Compounding	Mixing of active pharmaceutical ingredients (APIs) in aggressive solvent environments.	Zero-leaching design prevents contamination of sensitive medical formulations.
Food & Beverage Processing	Dispersion of thickeners, flavorings, and colorants in acidic or sugary food bases.	Non-stick surface allows for rapid cleaning and meets all food-safety contact standards.
High-Purity Chemical Synthesis	Stirring of corrosive reagents during the production of specialty chemicals or semiconductors.	Total resistance to acids and bases that would corrode traditional metal alloy paddles.
Battery Slurry Preparation	Mixing of conductive additives and binders for lithium-ion battery electrode production.	Eliminates metallic contamination that could lead to battery cell failure or short circuits.
Trace Metal Analysis	Laboratory-scale sample preparation where any external metal input would skew results.	Ensures the highest possible analytical accuracy by maintaining a metal-free environment.

Specification Category	Parameter Details (Model: PL-CP318)
Material Composition	100% Virgin High-Purity Polytetrafluoroethylene (PTFE)
Standard Diameter	150mm (15cm)
Customization Range	Fully customizable diameter, thickness, and blade count
Temperature Resistance	-200°C to +260°C (-328°F to +500°F)
Surface Finish	CNC-machined, ultra-smooth, non-porous
Chemical Compatibility	Universal (except for molten alkali metals and fluorine gas)
Leaching Profile	Zero extraction of organic or inorganic contaminants
Compliance	Food Grade / Pharmaceutical Grade compliant materials
Mounting Interface	Customizable to suit specific stirrer shafts and overhead mixers