

Custom Ptfе Dispersing Disc And Stirring Rod For Chemical Processing And Laboratory Mixing

Item Number: PL-CP06



Introduction

Engineered for aggressive chemical environments, this custom PTFE dispersing disc and stirring rod offer superior corrosion resistance and a low-background profile. Ideal for high-purity laboratory mixing, pharmaceutical processing, and industrial dispersion applications requiring virgin fluoropolymer materials.

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Application	Description	Key Benefit
Pharmaceutical Formulation	Mixing of active pharmaceutical ingredients (APIs) in corrosive or high-purity solvents.	Prevents metal ion leaching and ensures batch purity.
Battery Slurry Production	Dispersion of conductive carbon and binders in lithium-ion battery manufacturing.	Chemical resistance to NMP and other aggressive solvents.
Pigment and Ink Milling	High-speed dispersion of pigments into resins and carriers for the coatings industry.	Easy cleaning and resistance to abrasive particles.
Trace Analysis Preparation	Homogenizing samples for ICP-MS or other sensitive analytical techniques.	Extremely low background values for reliable data.
Electronic Chemicals	Mixing and filtration prep for high-purity photoresists and etching chemicals.	Maintains the ultra-clean standards required for semiconductors.
Specialty Polymer Synthesis	Stirring during the polymerization process involving reactive monomers.	High temperature stability and non-stick surface.
Daily Chemical Production	Emulsifying lotions, creams, and surfactants in the cosmetic industry.	Hygienic, non-porous surface that resists bacterial growth.
Food & Flavor Processing	Blending of acidic or alkaline food-grade additives and flavor concentrates.	Compliance with inert material requirements for food contact.

Parameter	Specification Details (Model PL-CP06)
Model Identifier	PL-CP06 Series
Material	100% Virgin PTFE (Polytetrafluoroethylene)
Appearance	Pure White, Opaque
Operating Temperature	-200°C to +250°C
Standard Disc Diameters	40mm, 50mm, 60mm, 80mm (Custom sizes available)
Standard Rod Lengths	200mm, 250mm, 300mm, 400mm (Custom lengths available)
Standard Rod Diameter	8mm
Chemical Resistance	Acids, Alkalis, Aqua Regia, Organic Solvents
Contamination Profile	Low Background; No Leaching, No Adsorption, No Precipitation
Dielectric Properties	High Breakdown Voltage; Low Dielectric Loss Factor
Friction Coefficient	Low (Self-lubricating material)

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Parameter	Specification Details (Model PL-CP06)	
Surface Energy	Low (Anti-stick, anti-fouling)	
Mechanical Properties	Semi-flexible, impact resistant, non-brittle	