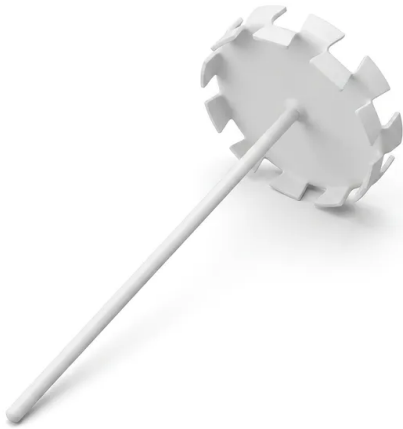


High Purity Corrosion Resistant Ptfе Dispersion Disk And Inert Stirring Paddle For Food Pharmaceutical And Cosmetic Mixing

Item Number: PL-CP163



Introduction

Secure superior chemical purity with our custom PTFE dispersion disks and stirring paddles. Engineered for food, pharma, and cosmetic applications, these inert mixing tools ensure zero contamination, exceptional corrosion resistance, and long-term durability in high-performance laboratory and industrial environments.

[Learn More](#)

Application	Description	Key Benefit
Pharmaceutical API Synthesis	Mixing of active pharmaceutical ingredients in highly acidic or basic environments.	Prevents metal ion contamination and ensures drug purity standards are met.
Cosmetic Emulsification	High-speed dispersion of oils, waxes, and pigments into aqueous bases for lotions and creams.	Zero-leachable surface maintains the shelf-stable color and fragrance profiles of premium products.
Specialty Food Processing	Blending of acidic sauces, flavorings, and additives in industrial-scale food production.	Full FDA compliance and ease of sterilization prevents bacterial growth and cross-batch flavor transfer.
Trace Metal Analysis	Preparation of samples and reagents in analytical laboratories where background noise must be minimized.	Eliminates the interference caused by traditional stainless steel or glass stirring equipment.
Fine Chemical Production	Synthesis of high-purity electronic-grade chemicals and specialized polymers.	Resistance to aggressive solvents that would degrade standard industrial stirring components.
Lithium Battery Slurry Mixing	Dispersion of conductive agents and binders in corrosive electrolyte-compatible environments.	Prevents the introduction of metallic impurities that could lead to cell short-circuiting.
Biotech Fermentation	Gentle or high-shear agitation of biological cultures and nutrient broths.	Biocompatible material ensures no cytotoxicity or inhibition of cellular growth during the process.

Attribute	Specification Detail for Item PL-CP163
Model Identifier	PL-CP163
Material Composition	100% Virgin High-Purity PTFE (Polytetrafluoroethylene)
Chemical Resistance	Universal (Excluding molten alkali metals and elemental fluorine)
Operating Temperature Range	-200°C to +260°C
Surface Finish	Fine CNC-machined finish; Low-porosity surface
Configuration Options	Single-disk, multi-stage paddles, saw-tooth dispersion heads
Shaft Compatibility	Fully customizable attachment points (Threaded, keyed, or sleeved)
Dimensions	Bespoke/Customizable (Manufactured to specific vessel requirements)
Certification Compliance	Materials meet FDA and USP Class VI standards for contact surfaces
Manufacturing Process	Precision CNC Turning and Milling