

High Purity Electronic Grade N-Methyl-2-Pyrrolidone Nmp Solvent For Battery Slurry And Chemical Synthesis

Item Number: FZ30



Introduction

Premium electronic grade N-Methyl-2-pyrrolidone NMP solvent featuring 99.90% purity and low moisture for battery electrode slurry preparation and advanced chemical processing. Delivers exceptional consistency across critical fabrication and precision synthesis workflows.

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Application	Description	Key Benefit
Lithium-Ion Battery Cathode Fabrication	Dissolution of PVDF binders and uniform dispersion of active materials (NMC, LFP, LCO) and conductive carbon additives for cathode slurry formulation.	Eliminates slurry agglomeration, prevents gelation, and ensures defect-free, uniform electrode coating thickness.
Polymer Membrane Production	Phase-inversion casting of porous ultrafiltration, nanofiltration, and gas-separation membranes using polysulfone, PES, and PVDF.	Delivers consistent pore size distribution, excellent mechanical integrity, and reproducible solvent-nonsolvent exchange rates.
Semiconductor & Microelectronics Cleaning	Removal of post-etch photoresist residues, flux residues, and organic contaminants from silicon wafers and circuit substrates.	Achieves non-corrosive residue removal with zero metallic or ionic surface contamination.
Polyimide & Engineering Resin Synthesis	Reaction solvent and polymerization medium for manufacturing polyimides, polyamide-imides, and polyphenylene sulfides.	Provides high solubility for reaction intermediates, enabling high-molecular-weight polymer formation with low defect density.
Industrial Coating & Paint Formulation	Specialty coalescing agent and solvent carrier for high-durability polyurethane, epoxy, and acrylic industrial finishes.	Enhances film leveling, substrate wetting, and chemical resistance in demanding protective coatings.
Precision Metal & Mold Degreasing	High-efficiency solvent degreaser for precision tooling, extrusion dies, and electronic hardware contaminated with heavy oils and waxes.	Rapidly strips persistent organic deposits without causing substrate pitting or dimensional distortion.
Agrochemical & Petrochemical Processing	Carrier solvent for crop protection active ingredients and selective extraction solvent for aromatic hydrocarbon recovery.	Maximizes active ingredient bio-availability and provides sharp separation factors in hydrocarbon fractionation.

Parameter Item	Specification Value	Measurement Unit	Testing Standard
Product Identifier	FZ30	—	—
Purity (Purity Level)	99.90	%	Q/1423MCX 002-2020
Moisture Content (Water Fraction)	0.097	%	GB/T6283
Chroma (Color Scale)	5	APHA	GB/T3143
Density (at 20°C)	1.031	g/cm ³	GB/T4472
Free Amine Content	13.67	ppm	Q/1423MCX 002-2020