

Polytetrafluoroethylene Liquid Ptfе Aqueous Dispersion Battery Binder

Item Number: FZ28



Introduction

High purity aqueous polytetrafluoroethylene liquid PTFE battery binder dispersion delivers sixty percent solid content and submicron particles to optimize cathode matrix formation anode cohesion dielectric cast films chemical barrier coatings and advanced industrial energy storage material research electrode applications

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Application	Description	Key Benefit
Battery Anode & Cathode Matrices	Acts as a fibrillating binder for lithium-ion, sodium-ion, and silver oxide battery electrodes in both wet aqueous and solvent-free dry calendering processes.	Creates a durable 3D micro-web that prevents active mass shedding, maintains electrode flexibility, and accommodates volume expansion during cycling.
Coated Woven Fiberglass Fabrics	Impregnation and coating of woven structural glass fabrics utilized in architectural membranes, industrial processing belts, and electronic insulation.	Imparts superior weatherability, high tear strength, non-stick release properties, and resistance to environmental moisture and UV degradation.
Chemical & Thermal Packing Seals	Saturation of woven mechanical packing fibers, valve packings, and compression seals operating in aggressive fluid environments.	Enhances chemical inertness against concentrated acids, bases, and aggressive organic solvents while preventing frictional overheating and seal degradation.
Cast Dielectric & Barrier Films	Formation of pinhole-free thin fluoropolymer films used in high-voltage capacitor dielectrics, moisture barriers, and corrosion-resistant liners.	Delivers high dielectric breakdown strength, ultra-low dielectric loss, and complete chemical impermeability across broad frequency and temperature ranges.
High-Temperature Substrate Coatings	Direct protective surface application onto metallic, ceramic, and composite components subjected to harsh operating temperatures and corrosive vapors.	Provides a low-friction, non-wetting surface layer with exceptional corrosion resistance and high-temperature thermal barrier protection.
Anti-Drip Additives for Plastics	Compounding agent for flame-retardant engineering thermoplastics, polycarbonates, and electronic housing polymers.	Forms an internal anti-drip fibril network during combustion, helping polymers meet rigorous UL94 V-0 flame-retardant safety standards.