

High Purity Pfa Translucent Volumetric Burette With Ptfе Valve For Acid Base Titration And Corrosive Reagent Handling

Item Number: PL-CP341



Introduction

Optimize trace analysis with our high-purity PFA burettes featuring PTFE valves for ultimate chemical resistance. These translucent, customizable tools ensure precision in aggressive acid-base titrations while maintaining sample integrity in demanding laboratory environments. Superior durability for industrial procurement requirements.

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Application	Description	Key Benefit
Semiconductor Grade HF Titration	Precise measurement of hydrofluoric acid concentrations used in silicon wafer etching and cleaning.	Resists HF corrosion that would destroy glass burettes immediately.
Trace Metal Analysis	Preparation and dispensing of high-purity acid standards for ICP-OES and ICP-MS analysis.	Ultra-low leaching profile ensures the lowest possible blank values.
Environmental Water Testing	Monitoring of aggressive industrial effluents and wastewater containing heavy metals or volatile organics.	Chemically inert surface prevents sample adsorption and cross-contamination.
Battery Electrolyte Research	Handling of sensitive lithium-ion battery electrolytes and corrosive additive mixtures.	Prevents contamination from moisture and provides superior chemical compatibility.
Pharmaceutical API Synthesis	Accurate addition of corrosive catalysts and reagents during the synthesis of active pharmaceutical ingredients.	Eliminates the risk of glass fragments or grease entering the reaction vessel.
Petrochemical Quality Control	Titration of strong acids and bases in crude oil analysis and refined product testing.	Withstands harsh solvents and aggressive chemical environments without degradation.
Nuclear Radiochemistry	Handling of radioactive isotopes in acidic media where material longevity is critical for safety.	Radiation resistance and ease of decontamination due to non-stick PFA surfaces.

Specification Category	PL-CP341 Standard Details	Customization Capabilities
Model Identifier	PL-CP341	Fully custom identifiers for bespoke orders
Body Material	High-Purity Translucent PFA	Specific PFA grades available upon request
Valve/Stopcock Material	Solid Virgin PTFE	Modified PTFE or reinforced options
Standard Capacities	25ml, 50ml	Any volume capacity can be custom CNC machined
Graduation Marking	Laser-etched or molded permanent markings	Custom scales and graduation intervals
Inlet/Outlet Design	Precision tapered tip	Customizable tube lengths and diameters
Chemical Compatibility	Acids, Bases, Solvents, HF	Optimized for specific aggressive media
Temperature Range	-200°C to +260°C	Tailored for specific thermal cycling needs
Sealing Mechanism	Compression-fit PTFE stopcock	Adjustable tension and specialized seal designs
Fabrication Method	End-to-end CNC Machining	Bespoke geometry for integrated lab setups