

Ptfe Flat Bottom Flask Continuous Reaction System Hydrofluoric Acid Resistant With Dropping Funnel

Item Number: PL-CP357



Introduction

Engineered for harsh chemical synthesis, this PTFE flat-bottom flask continuous reaction system provides absolute resistance to hydrofluoric acid. Featuring standard ground joints and integrated dropping funnels, our customizable setups ensure high-purity results for demanding industrial and laboratory applications today.

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Application	Description	Key Benefit
Hydrofluoric Acid Synthesis	Handling aqueous HF and concentrated fluoride solutions for chemical production.	Absolute resistance to HF etching, preventing vessel failure.
Semiconductor Wet Etching	Mixing and dispensing high-purity etchants used in silicon wafer processing.	Ensures ultra-low trace metal contamination in the etchant.
Pharmaceutical Intermediate Production	Continuous flow synthesis of active pharmaceutical ingredients (APIs) involving corrosive catalysts.	Eliminates leaching and ensures high batch-to-batch repeatability.
Battery Electrolyte Research	Preparation of lithium-ion battery salts and electrolyte solvents in an inert environment.	Chemical stability against organic carbonates and lithium salts.
Trace Metal Analysis	Digestion and sample preparation of geological or environmental samples using strong acids.	Lowest possible background levels for ICP-MS and AAS analysis.
Fine Chemical Manufacturing	Large-scale continuous production of specialty polymers and additives.	Durable construction supports high-volume industrial throughput.

Feature	Specification Details (PL-CP357 Series)
Model Identification	PL-CP357 (Base Configuration)
Material Composition	100% Virgin High-Purity PTFE (PFA / TFM available on request)
Flask Type	Flat-bottom for stability and magnetic stirring optimization
Reaction Capacity	Fully Customizable (Commonly 100ml, 250ml, 500ml, 1000ml, 2000ml, 5000ml)
Standard Neck Sizes	14/23, 19/26, 24/29, 29/32, 45/40 (CNC-machined standard tapers)
Neck Configuration	Single, double, or multi-neck designs available
Dropping Funnel Type	PTFE Dropping Funnel with precision control valve
Funnel Capacity	Customizable to match flask volume (e.g., 50ml to 1000ml)
Temperature Range	-200°C to +260°C (-328°F to +500°F)
Pressure Rating	Atmospheric (Custom reinforced designs available for vacuum/pressure)
Chemical Resistance	Full resistance to HF, HCl, H2SO4, HNO3, and all organic solvents
Fabrication Method	Full CNC Machining for maximum precision and surface finish