

Pfa Chemical Reaction Tank With Customizable Fittings For Corrosive Solvent Synthesis And High Purity Lab Applications

Item Number: PL-CP48



Introduction

Premium 6L PFA reaction tank delivers exceptional chemical resistance for aggressive solvents. This customizable vessel features high-purity construction and precision fittings, ideal for advanced material synthesis, pharmaceutical research, and demanding industrial laboratory processes.

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Application	Description	Key Benefit
Semiconductor Etchant Prep	Mixing and storing high-purity acids used in silicon wafer cleaning and etching processes.	Zero metallic contamination
Pharmaceutical API Synthesis	Conducting organic synthesis reactions involving highly corrosive reagents or aggressive solvents.	Superior batch purity control
New Material Research	Synthesis of advanced nanomaterials and specialty polymers requiring precise environmental control.	Wide temperature/pressure range
Trace Element Analysis	Sample digestion and preparation for ICP-MS or ICP-OES analysis in environmental monitoring.	Lowest possible detection limits
Battery Electrolyte Testing	Formulation and testing of novel lithium-ion or solid-state battery electrolytes.	Excellent electrochemical stability
Petrochemical Additives	Evaluating the performance of corrosive fuel additives and lubricants under thermal stress.	High-temperature durability
Fine Chemical Production	Small-batch production of high-value specialty chemicals requiring universal corrosion resistance.	Long equipment service life

Feature	Specification	Model Identifier
Base Material	High-Purity Virgin PFA (Perfluoroalkoxy)	PL-CP48
Standard Volume	6 Liters	PL-CP48
Temperature Range	-200°C to +260°C (Customizable based on seal type)	PL-CP48
Pressure Rating	Customizable to application requirements	PL-CP48
Fittings & Connections	Fully customizable (NPT, GL, Flange, Barb)	PL-CP48
Lid Configuration	Multi-port design; customizable number and size of ports	PL-CP48
Wall Thickness	Customizable for vacuum or pressure applications	PL-CP48
Interior Finish	Ultra-smooth CNC machined; non-stick surface	PL-CP48
Support Structure	Optional customizable heating jackets or stands	PL-CP48
Sealing Gaskets	Customizable PTFE or PFA-encapsulated O-rings	PL-CP48