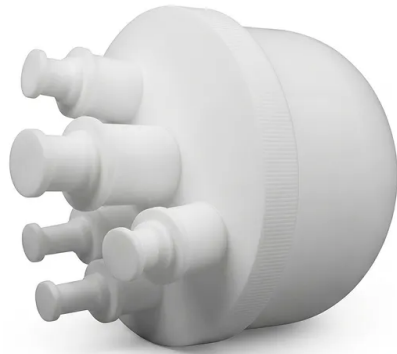


Custom Multi Neck PTFE Flask For Chemical Engineering And High Purity Laboratory Synthesis Applications

Item Number: PL-CP257



Introduction

High performance custom multi neck PTFE flask for chemical engineering and high purity synthesis. This heavy duty fluoropolymer vessel offers unmatched chemical resistance and compatibility with stirring paddles and funnels for demanding industrial laboratory processes and advanced reactor setups.

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Application	Description	Key Benefit
Semiconductor Processing	Synthesis and storage of ultra-high purity etching chemicals and solvents.	Zero metallic contamination
Pharmaceutical R&D	Synthesis of active pharmaceutical ingredients (APIs) involving aggressive reagents.	Chemical purity and safety
Trace Analysis	Acid digestion and sample preparation for ICP-MS or atomic absorption spectroscopy.	Ultra-low detection limits
Petrochemical Testing	High-temperature reaction testing of corrosive hydrocarbon derivatives and catalysts.	Thermal and chemical durability
Battery Material Research	Development of electrolytes and lithium-ion components requiring moisture-free, inert environments.	Moisture and solvent resistance
Hydrofluoric Acid Synthesis	Handling and reacting HF at various concentrations and temperatures.	Absolute resistance to etching
Specialized Polymerization	Conducting complex polymer synthesis where non-stick properties are required for recovery.	Easy product recovery
Custom Reactor Setups	Building bespoke laboratory rigs requiring non-standard geometry and multiple sensor ports.	Design flexibility

Feature	Specification Details
Product Item Number	PL-CP257
Base Material	100% Virgin High-Density Polytetrafluoroethylene (PTFE)
Capacity Options	Fully customizable bespoke sizing (e.g., 5000ml or custom volumes)
Neck Configuration	Custom multi-neck design (Single, 2-neck, 3-neck, 4-neck, or more)
Connection Types	Standard taper joints, GL threads, or bespoke CNC-machined ports
Operating Temperature Range	-200°C to +260°C (-328°F to +500°F)
Pressure Rating	Suitable for vacuum and low-pressure industrial applications
Internal Finish	High-precision CNC smooth finish (Ra < 0.4 µm available)
Chemical Compatibility	Universal (highly resistant to all acids, alkalis, and solvents)
Wall Construction	Custom heavy-duty thickness for enhanced mechanical stability
Compatibility	Optimized for use with PTFE stirrers, funnels, and thermometers