

Custom Ptfе Beaker With Lid 200MI Hot Plate Compatible 200C Temperature Resistant Laboratory Vessel

Item Number: PL-CP075



Introduction

High-purity custom PTFE beaker 200ml designed for aggressive chemical processing and hot plate heating up to 200C. Featuring optional lids and full CNC customization for demanding laboratory environments requiring superior chemical resistance and thermal stability in every application.

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Application	Description	Key Benefit
Trace Metal Analysis	Preparation of samples using concentrated mineral acids for ICP-MS or AAS analysis.	Zero metal leaching ensures extremely low detection limits and high data accuracy.
Semiconductor Processing	Handling and mixing of high-purity etching solutions and photoresist strippers.	Maintains the required sub-ppb purity levels essential for wafer fabrication processes.
Pharmaceutical Synthesis	Small-batch reaction vessel for the synthesis of active pharmaceutical ingredients (APIs).	Chemical inertness prevents side reactions and ensures the purity of the final compound.
Battery Research	Testing of aggressive electrolytes and molten salts in energy storage development.	Withstands the corrosive nature of lithium salts and high-temperature cycling.
Acid Digestion	High-temperature decomposition of geological or environmental samples on hot plates.	Allows for safe heating with hydrofluoric and perchloric acids that would destroy glass.
Petrochemical Testing	Analysis of crude oil derivatives and catalysts involving high-temperature solvents.	Robust thermal and chemical resistance prevents vessel degradation in harsh environments.
Hydrothermal Pre-treatment	Preliminary heating and mixing of reagents before secondary high-pressure processing.	Consistent performance under moderate heat facilitates uniform sample preparation.

Parameter	Specification Details
Product Item Number	PL-CP075
Base Material	100% Virgin High-Density PTFE (Polytetrafluoroethylene)
Standard Capacity	200ml (Fully Customizable Volume available)
Continuous Operating Temp	-200°C to +260°C (Material Limit)
Hot Plate Safety Limit	Up to 200°C (Recommended with controlled ramp-up)
Flammability Rating	UL94 V-0 (Non-flammable)
Chemical Resistance	Universal (Except molten alkali metals and gaseous fluorine)

Feature	Configuration Options
Wall Thickness	Standard heavy-wall or bespoke thickness for optimized heat transfer
Lid Configuration	Optional flat lid, threaded cap, or custom aperture lid (Item PL-CP075-L)

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Base Design	Flat bottom for hot plate contact or recessed for specific heating mantles	
Graduations	Optional laser-etched or machined permanent markings	
Fabrication Method	Full CNC Machining from solid billet	
Surface Finish	High-precision smooth finish (Custom Ra values available)	