

# Custom Ptfе Laboratory Crucibles High Purity Chemical Resistant White Labware For Hot Plate Heating

Item Number: PL-CP292



## Introduction

Optimize trace analysis with our custom high-purity PTFE crucibles. Engineered for 260°C resistance and zero leaching, these chemical-resistant vessels integrate perfectly with laboratory hot plates for demanding acid digestion and sample preparation workflows in premium industrial laboratory environments worldwide today.

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Application	Description	Key Benefit
Trace Metal Analysis	Digestion of soil, water, and biological samples using concentrated acids for ICP-MS preparation.	Zero background contamination ensures accurate detection of parts-per-trillion levels.
Semiconductor Processing	Handling of ultra-pure wet chemicals and etching agents used in wafer fabrication and cleaning.	Maintains chemical purity levels required for high-yield semiconductor manufacturing.
Pharmaceutical R&D	Synthesis and stability testing of active pharmaceutical ingredients (APIs) involving aggressive solvents.	Prevents interaction between the container and sensitive drug compounds.
Environmental Testing	Large-scale acid digestion of waste materials and industrial effluents for regulatory compliance.	High durability and acid resistance extend the service life of laboratory consumables.
Metallurgy	Dissolution of metal alloys and ores using aqua regia or other strong mineral acids.	Resistant to the most aggressive acid combinations at elevated temperatures.
Food Safety Testing	Preparation of food samples for heavy metal screening and nutritional analysis.	Compliant with high-purity standards to prevent false-positive contamination results.
Petrochemical Analysis	Catalyst testing and additive evaluation involving high-temperature hydrocarbon processing.	Stable performance in high-temperature environments without structural deformation.

Parameter	PL-CP292 Specification Details
Model Identifier	PL-CP292 Series
Primary Material	Ultra-High Purity Virgin PTFE (Polytetrafluoroethylene)
Color	Opaque White
Maximum Operating Temperature	260°C (500°F)
Minimum Operating Temperature	-200°C (-328°F)
Chemical Resistance	Resistant to all acids, bases, and organic solvents
Customization Scope	Fully customizable dimensions, volumes, and geometries
Volume Options	Custom specified (Available from 1mL to 5000mL+)
Wall Thickness	Standard or bespoke heavy-wall designs available
Base Design	Precision-lapped flat base for hot plate contact

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Parameter	PL-CP292 Specification Details	
Surface Porosity	Non-porous, hydrophobic surface	
Manufacturing Process	Precision CNC Machining from Isostatically Pressed Rod	