Custom Large Diameter Ptfe Petri Dishes High Purity Corrosion Resistant 210Mm Non Stick Labware

Item Number: PL-CP95

Introduction

Discover our custom 210mm PTFE petri dishes, engineered for ultra-pure trace analysis. These corrosion-resistant, non-stick vessels ensure zero leaching and low background noise, making them ideal for high-stakes laboratory research, chemical casting, and industrial pharmaceutical applications today.

Learn More

Application	Description	Key Benefit
Membrane Casting	Used as a substrate for pouring and drying hybrid or polymer membranes in fuel cell and filtration research.	Effortless non-stick peeling preserves membrane integrity.
Trace Metal Analysis	Container for sample preparation and digestion using concentrated nitric or hydrofluoric acids.	Zero leaching ensures accurate ppt-level detection.
Semiconductor Etching	Handling of high-purity etching solutions during the wafer cleaning and preparation stages.	Resistance to aggressive acids prevents process contamination.
Pharmaceutical Synthesis	Reaction vessel for the synthesis of active pharmaceutical ingredients involving corrosive catalysts.	Inert surface prevents side reactions with vessel walls.
Cryogenic Research	Storage and manipulation of biological or chemical samples at liquid nitrogen temperatures.	Material remains ductile and crack-resistant at low temps.
High-Temp Evaporation	Large surface area vessel for the reduction of solvent volumes in industrial chemical processing.	Maintains structural stability at continuous high heat.
Adhesive Curing	Substrate for the testing and curing of industrial-strength adhesives and resins.	Low friction coefficient allows for easy removal of cured parts.
Standard Lab Storage	Secondary containment for highly volatile or light-sensitive reagent samples.	Prevents chemical cross-contamination in shared environments.

Feature	Specification Details (Model: PL-CP95)
Product Identifier	PL-CP95 Custom Fabrication Series
Base Material	High-Purity Virgin Polytetrafluoroethylene (PTFE)
Diameter	210mm (Customizable upon request)
Specific Gravity	2.10 – 2.20 g/cc
Melting Point	327°C (621°F)
Heat Deflection Temp	120°C (248°F)
Continuous Service Temp	-200°C to +260°C
Hardness	55D (Shore Scale)
Coefficient of Friction	0.110 (Static)
Tensile Strength	2,990 – 4,970 psi

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Feature	**Specification Details (Model: PL-CP95)**	
Flexural Strength	2,490 psi	
Water Absorption	< 0.01% (24-hour immersion)	
Dielectric Constant	2.1	
Chemical Resistance	Universal (Except molten alkali metals and elemental fluorine)	
Surface Finish	Smooth, crevice-free CNC machined finish	
Customization Options	Depth, wall thickness, lid compatibility, and bottom profile	