

Customizable Pfa Square Tray Corrosion Resistant High Temperature Large Petri Dish Electrolytic Cell

Item Number: PL-CP285



Introduction

Acquire premium customizable PFA square trays engineered for extreme chemical resistance and high-temperature stability. Ideal for electrolytic cells and large-scale Petri applications, these precision-machined fluoropolymer solutions ensure unmatched purity and long-term durability in demanding laboratory research environments.

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Application	Description	Key Benefit
Semiconductor Etching	Used as a containment tray for silicon wafer cleaning and etching using aggressive hydrofluoric acid solutions.	Prevents metallic contamination and withstands corrosive acids without degradation.
Electrochemical Research	Serves as the primary vessel body for custom-designed electrolytic cells and battery testing fixtures.	Provides electrical insulation and chemical resistance for long-term stability.
Trace Metal Analysis	Acts as a large-scale evaporation or digestion dish for samples intended for ICP-OES and ICP-MS testing.	Ultra-low background levels ensure the highest analytical accuracy for trace detection.
Pharmaceutical Synthesis	Utilized for the containment of active pharmaceutical ingredients (APIs) during corrosive chemical reactions.	High-purity PFA ensures no leaching of impurities into the pharmaceutical product.
Aerospace Component Testing	Employed as a bath for testing the corrosion resistance of aerospace alloys in simulated extreme environments.	High thermal and chemical resistance allows for accelerated aging tests at high temperatures.
Fuel Cell Development	Integrated into testing systems for hydrogen fuel cells where high humidity and acidity are prevalent.	Low permeability and chemical inertness protect the integrity of reaction gases and sensors.
High-Purity Storage	Used for the storage and transport of ultra-pure reagents and sensitive chemical precursors.	Eliminates the risk of container-sourced contamination over long storage periods.

Specification Parameter	Details for PL-CP285
Product Item Number	PL-CP285
Material Options	High-Purity PFA or PTFE (Virgin Grade)
Dimensions (LxWxH)	Fully Customizable to User Specifications
Wall Thickness	Customizable (Heavy-wall options available for structural rigidity)
Operating Temperature Range	-200°C to +260°C (PFA) / -190°C to +250°C (PTFE)
Chemical Compatibility	Universal (Except for molten alkali metals and fluorine at high temperatures)
Surface Finish	Precision CNC Machined (Ultra-smooth, anti-adsorption finish)
Fabrication Method	End-to-end Custom CNC Fabrication / High-Precision Molding
Internal Geometry	Available with flat, sloped, or multi-compartment bases as requested
Tensile Strength	Optimized for industrial load-bearing during fluid transfer

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Specification Parameter	Details for PL-CP285	
Permeability	Extremely low for moisture and reaction gases	
Adsorption Rate	Negligible for metal ions and organic compounds	