

Custom Ptfе Wafer Carrier Cleaning Basket Corrosion Resistant Non Leaching High Polymer Experiment Support

Item Number: PL-CP264



Introduction

High-performance custom PTFE wafer carriers and cleaning baskets designed for semiconductor and polymer research. Featuring exceptional corrosion resistance and zero-leaching properties, these bespoke solutions ensure contamination-free processing in demanding chemical environments for high precision laboratory and industrial applications today.

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Application	Description	Key Benefit
Semiconductor Wet Etching	Holding silicon wafers during acid-based etching processes to remove oxides or define patterns.	Chemical inertness prevents bath contamination.
Trace Metal Analysis	Cleaning labware and samples in high-purity acid baths for environmental or geological research.	Zero metal leaching ensures analytical accuracy.
Polymer Synthesis	Supporting catalyst carriers or substrates in high-temperature solvent-based reactions.	High thermal resistance and non-stick surface.
Solar Cell Fabrication	Carrying large-format silicon substrates through multi-stage cleaning and texturing baths.	Durable construction for high-volume throughput.
Pharmaceutical Cleaning	Sterilizing and cleaning delicate glass or metal components in aggressive detergent solutions.	Compliance with high purity and non-contaminating standards.
Electrochemical Deposition	Holding substrates during metal plating or deposition in corrosive electrolyte solutions.	Electrical insulation and chemical stability.
Optoelectronics Processing	Cleaning and handling glass or sapphire substrates for LED and laser diode manufacturing.	Scratch-free handling and residue-free rinsing.
High-Temperature Drying	Moving wafers from wet baths directly into heated drying chambers or ovens.	Retains structural integrity up to 260°C.

Feature	Specification Details (PL-CP264 Series)
Product Identification	PL-CP264 Custom Wafer Carrier
Primary Material	High-Purity Virgin PTFE (Optional PFA available)
Customization Status	100% Bespoke / Made-to-Order
Temperature Range	-200°C to +260°C (-328°F to +500°F)
Chemical Compatibility	Universal (All acids, bases, solvents, except molten alkali metals)
Slot Configuration	Customizable (Width, Pitch, Angle, and Depth)
Wafer Compatibility	Custom sizes for 1", 2", 4", 6", 8", 12" or non-standard shapes
Fabrication Method	High-precision CNC Machining
Surface Finish	Smooth, low-friction, non-porous

Application	Description	Key Benefit
Feature	Specification Details (PL-CP264 Series)	
Handle Options	Integrated, Detachable, or Robotic Interface	
Batch Capacity	Designed per user specification (Single or Multiple Wafer)	