

6 Inch Circular Ptfе Wafer Carrier Acid And Alkali Resistant Semiconductor Cleaning Flower Basket Customizable

Item Number: PL-CP55



Introduction

High-purity 6-inch PTFE wafer carriers designed for critical semiconductor wet processing. Engineered for extreme chemical resistance and thermal stability, these customizable flower baskets ensure uniform cleaning and substrate protection in harsh acidic and alkaline immersion environments throughout production.

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Application	Description	Key Benefit
Semiconductor RCA Cleaning	Immersion of wafers in SC-1 and SC-2 solutions to remove organic and ionic contaminants.	Total resistance to oxidizing agents and high-temperature bases.
Wet Etching Processes	Selective removal of material layers using hydrofluoric (HF) or phosphoric acid.	Precise substrate positioning ensures uniform etch depth across the wafer.
Photolithography Stripping	Removal of photoresist layers using aggressive organic solvents or piranha solutions.	Material will not swell or degrade when exposed to harsh solvents.
Solar Cell Texturing	High-volume cleaning and surface texturing of silicon wafers for improved efficiency.	Durable design withstands the rigors of industrial-scale chemical throughput.
Post-CMP Rinsing	Removal of slurry particles and chemicals after chemical-mechanical polishing.	Ultra-smooth surfaces prevent particle re-attachment and facilitate easy rinsing.
Trace Analysis Prep	Cleaning of high-purity laboratory components in concentrated nitric or hydrochloric acid.	Eliminates cross-contamination risks for ultra-trace elemental analysis.
MEMS Fabrication	Specialized substrate handling for micro-electromechanical systems production.	Customizable slot dimensions accommodate non-standard substrate thicknesses.

Parameter	Specification for PL-CP55
Product Identification	PL-CP55 Circular Wafer Carrier (Flower Basket)
Material Composition	High-Purity Virgin Polytetrafluoroethylene (PTFE)
Wafer Size Compatibility	6-Inch (150mm) Standard (Custom sizes available)
Configuration	Circular Slotted Basket / Perforated Flower Design
Slot Count / Capacity	Customizable (Standard options: 10, 25, or 50 slots)
Operating Temperature	-200°C to +260°C (-328°F to +500°F)
Chemical Resistance	pH 0-14 (Universal acid/alkali/solvent resistance)
Slot Width / Pitch	Fully Customizable per user specification
Handle Type	Integrated fixed handle or detachable PTFE swing handle (Customizable)
Surface Finish	CNC Machined Smooth (Ra ≤ 0.8µm typical)
Fabrication Method	100% Precision CNC Machined (Custom Product)

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Dimensions Custom-engineered to fit specific wet bench or tank dimensions