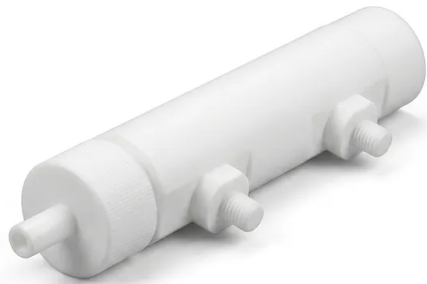


High Purity Custom Ptfе Reaction Cell Electrolytic Tank For Semiconductor And Polysilicon Industrial Applications

Item Number: PL-CP108



Introduction

Discover custom PTFE reaction cells and electrolytic tanks designed for semiconductor and polysilicon manufacturing. These corrosion-resistant units ensure high purity in trace analysis and chemical processing, offering unmatched durability and thermal stability for demanding laboratory and industrial applications.

[Learn More](#)

Application	Description	Key Benefit
Semiconductor Wafer Cleaning	Used as a custom bath for ultra-pure acid cleaning of silicon wafers during the photolithography process.	Prevents metallic ion contamination.
Polysilicon Chemical Vapor Deposition	High-purity vessels for handling reagents used in the production of solar and electronic grade silicon.	Maintains high-purity precursor integrity.
Electrochemical Research	Custom-built electrolytic cells for testing new battery chemistries and metal plating processes.	Eliminates side reactions with vessel walls.
Trace Metal Analysis	Storage and reaction containers for samples requiring parts-per-trillion purity levels in environmental testing.	Lowest leachable profile available.
Plasma Etching Support	Component shrouds and protectors used within plasma chambers to safeguard sensitive instrumentation.	Exceptional resistance to plasma erosion.
Corrosive Fluid Transfer	Custom manifolds and reaction tanks for handling hydrofluoric acid and other aggressive etching agents.	Maximum operator safety and equipment life.
High-Temperature Synthesis	Reaction vessels for hydrothermal or reflux processes involving aggressive organic catalysts.	Continuous operation at elevated temperatures.
Bespoke Lab Setup	Specialized reactors designed to integrate with automated sensors and fluidic controllers.	Seamless integration with existing infrastructure.

Parameter Group	Specification Detail	Product Item Number
Material Construction	High-Purity Virgin PTFE / PFA (Per Customer Requirement)	PL-CP108
Dimensional Specifications	Fully Customizable / Per Customer Technical Drawing	PL-CP108
Port Configurations	Custom Threaded Ports, Flanges, or Tapered Joints	PL-CP108
Temperature Rating	Material Thermal Limit (Application Specific)	PL-CP108
Chemical Resistance	Universal (Except Molten Alkali Metals and Fluorine at High Temp)	PL-CP108
Fabrication Method	Precision CNC Machining & Custom Lathe Turning	PL-CP108
Surface Finish	High-Grade Smooth Finish for Minimal Residue	PL-CP108
Lid Design	Custom Bolted, Threaded, or Pressure-Fit Options	PL-CP108
Volume Capacity	Tailored to Specific Industrial or Lab Requirements	PL-CP108

Application	Description	Key Benefit
Parameter Group	Specification Detail	Product Item Number
Wall Thickness	Engineered for Pressure and Thermal Requirements	PL-CP108