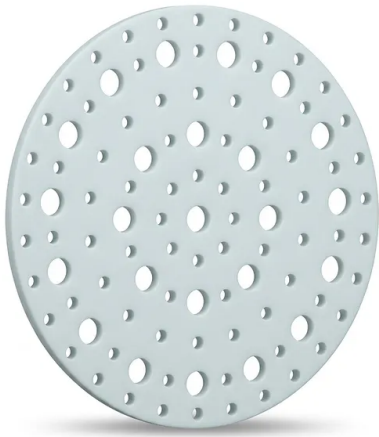


High Temperature Resistant Tfm Insulating Baffles Ultra Clean Laboratory Ptfе Partitions With Customizable Pore Patterns

Item Number: PL-CP130



Introduction

Optimize your ultra-clean laboratory workflows with high-temperature resistant TFM insulating baffles. These precision-engineered PTFE partitions offer unmatched chemical inertness and fully customizable pore patterns to meet the rigorous demands of advanced industrial research and high-purity fluid management.

[Learn More](#)

Application	Description	Key Benefit
Electrochemical Cells	Acts as a separator or baffle within electrochemical reactors to manage ion flow and provide structural support for electrodes.	High dielectric strength
Trace Metal Analysis	Used as a partition in ultra-pure digestion and sample preparation systems to prevent cross-contamination.	Zero leaching profile
Fuel Cell Testing	Serves as an insulating component in high-humidity and high-temperature hydrogen environments.	Low permeability
Semiconductor Processing	Integrated into cleaning tanks and wafer processing tools to withstand aggressive etching chemicals.	Superior chemical resistance
Pharmaceutical Synthesis	Utilized in reaction vessels to separate phases or provide structural baffling for consistent mixing.	Non-reactive surface
Environmental Monitoring	Used in filtration and sampling devices for measuring pollutants in water or air at the parts-per-trillion level.	Minimal adsorption
Cryogenic Storage	Provides insulation and physical separation in low-temperature liquid nitrogen or gas storage systems.	Cold-flow resistance
Industrial Filtration	Functioning as a support plate or baffle for corrosive fluid filtration in large-scale chemical manufacturing.	High mechanical strength

Feature	Specification Detail for PL-CP130
Model Identifier	PL-CP130
Primary Material	High-Purity TFM (Modified PTFE)
Operating Temperature Range	-200°C to +260°C
Chemical Compatibility	Universal (Except molten alkali metals and high-temp fluorine)
Dimensional Customization	Bespoke diameters, thicknesses, and geometries available
Pore Diameter Range	Custom specified (Precision CNC drilling)
Pore Density/Count	Fully customizable based on customer technical drawings
Surface Finish	Ultra-smooth, non-porous machined finish
Dielectric Strength	>18 kV/mm (Material specific)
Water Absorption	<0.01%
Manufacturing Process	Precision CNC Machining / Custom Fabrication
Standard Compliance	High-purity laboratory grade