

High Purity Ptfе Square Membrane Cutter Equipartition Device For Trace Analysis And Disease Control Centers Clean Non Stick No Leaching

Item Number: PL-CP297



Introduction

Optimize laboratory precision with this high-purity PTFE square membrane cutter. Engineered for disease control centers, this non-stick, zero-leaching equipartition device ensures sample integrity during critical trace analysis and filtration tasks across diverse demanding chemical environments.

[Learn More](#)

Application	Description	Key Benefit
CDC Pathogen Prep	Dividing air or water filters for multi-pathogen testing in disease control protocols.	Prevents cross-contamination and ensures sterile sample handling.
Trace Metal Analysis	Preparing filter membranes for digestion and subsequent ICP-MS or AAS analysis.	Eliminates background interference from metallic leaching.
Environmental Monitoring	Processing PM2.5 and PM10 air quality filters for quantitative particulate assessment.	Maintains sample integrity in aggressive acidic environments.
Pharmaceutical QC	Equipartitioning membranes used in sterility testing and microbial limit tests.	Non-stick surface ensures no loss of critical biological samples.
Semiconductor Grade Filtration	Cutting high-purity PTFE or PFA membranes for use in ultra-pure chemical lines.	Maintains the extreme cleanliness standards required in wafer fab.
Microplastic Research	Segmenting filters for spectroscopic identification of micro-sized plastic particles.	Inert surface ensures no additional plasticizers are introduced to the count.
Forensic Science	Precise division of evidence-collecting filters for multiple chemical and biological tests.	Reliable replication of sample data across different testing modalities.

Specification Category	Parameter Details for PL-CP297
Model Identifier	PL-CP297 (Standard and Bespoke Variants)
Primary Material	High-Purity Virgin PTFE (Polytetrafluoroethylene)
Material Purity	Trace Analysis Grade (Metal-free, PFOA-free)
Temperature Tolerance	-200°C to +260°C (-328°F to +500°F)
Chemical Compatibility	Universal (Except molten alkali metals and elemental fluorine)
Leaching Characteristics	Non-detectable levels of organic and inorganic extractables
Surface Finish	CNC Precision Machined, Low Surface Roughness
Cutting Accuracy	Customizable based on customer partition requirements
Standard Shape	Square / Rectangular Equipartition Layout
Sterilization Compatibility	Autoclave, Gamma, ETO, and Acid Bath (HNO3/HCl)

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Customization Scope	Dimensions, Partition Count, Depth, and Specific Geometric Patterns	