



KINTEK

## Filtration Consumables Catalog

Contact us for more catalogs of PTFE(Teflon) Products, Reaction & Synthesis Equipment, Electrochemistry & New Energy Testing, Basic Labware & Containers, Fluid Transfer, Tubing & Valves, Sample Preparation & Filtration, General Consumables & Seals, High-Purity & Trace Analysis, Custom Machining Services, etc.

# **KINTEK**

## **COMPANY PROFILE**

### **>>> About Us**

From everyday basic labware (beakers, measuring cylinders, crucibles, dishes, reagent/wash bottles, centrifuge and digestion tubes), high-purity trace analysis instruments, and cleaning/storage tanks, to comprehensive fluid transfer components (tubing, fittings, valves), sample prep and filtration tools (separatory funnels, burettes, filters, pipettes, tweezers, spatulas), and general consumables (stirring bars, O-rings, gaskets, seal tapes, caps, septa), extending all the way to advanced derivative and reaction apparatus like standard or custom electrochemical cells, battery testing fixtures, electrode accessories, hydrothermal synthesis liners, microwave digestion vessels, microchannel reactors, and condensation/reflux devices, KINTEK manufactures virtually all imaginable laboratory supplies crafted from PTFE and PFA. Backed by end-to-end custom CNC fabrication, we are equipped to deliver absolutely everything from complex non-standard machined parts and bespoke laboratory setups to high-volume orders, maintaining an exclusive and absolute focus on high-performance fluoropolymer materials.



# Custom Ptfе Water Quality Filter 202Mm Diameter 142Mm Membrane Corrosion Resistant Holder

Item Number: PL-CP04



## Introduction

High-purity PTFE water quality filter with 202mm diameter designed for 142mm membranes. This corrosion-resistant system ensures leak-proof performance and chemical inertness for demanding industrial filtration applications in semiconductor pharmaceutical and environmental monitoring laboratory environments.

[Learn More](#)

Application	Description	Key Benefit
Water Quality Monitoring	Filtration of large-volume environmental water samples for trace metal and organic pollutant analysis.	Zero leaching of contaminants into environmental samples.
Semiconductor Wet Processing	High-purity filtration of aggressive etching chemicals and photoresist solvents during wafer fabrication.	Exceptional resistance to hydrofluoric acid and solvents.
Pharmaceutical Purification	Final stage filtration of active pharmaceutical ingredients (APIs) in corrosive or high-purity solvent systems.	High thermal stability and non-shedding characteristics.
Trace Metal Analysis	Preparation of samples for ICP-MS and AAS where any background metallic contamination must be eliminated.	Ultra-high purity PTFE ensures background levels remain negligible.
Specialty Chemical Production	Filtering highly concentrated acids and bases before packaging or further synthesis.	Long-term reliability in extremely corrosive environments.
Battery Research	Handling and filtration of aggressive electrolytes and conductive salts for lithium-ion battery development.	Chemical compatibility with specialized organic carbonates.
Biological Sample Prep	Large-scale filtration of biological fluids where chemical sterilization of equipment is required.	Withstands aggressive cleaning protocols and autoclaving.

Feature	Specification Details (PL-CP04)
Model Number	PL-CP04
Primary Material	High-Purity Polytetrafluoroethylene (PTFE)
External Body Diameter	202 mm
Compatible Membrane Diameter	142 mm
Sealing Method	Manual tightening bolts for high-integrity seal
Operating Temperature Range	-200°C to +260°C
Chemical Resistance	Full resistance to all acids, bases, solvents, and oxidizers
Surface Finish	CNC-machined flat support surface
Support Structure	Integrated heavy-duty support legs for benchtop use
Port Connections	Customizable inlet/outlet for various flexible tubing sizes

Application	Description	Key Benefit
Feature	Specification Details (PL-CP04)	
Maintenance	Fully disassemble-able for deep cleaning and sterilization	
Customization Options	Dimensions, port sizes, and structural layout can be tailored	



**Kintek**

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