KINTEK

Custom Cnc Machined Ptfe/Pfa Parts Catalog

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

High Purity Pfa Nitrogen Blowdown Evaporator System Corrosion Resistant Sample Concentration Device With Integrated Pfa Valves And Customizable Multiple Position Manifolds

Item Number: PL-CP202

Introduction

Optimize sample concentration with this high-purity PFA nitrogen blowdown system featuring superior chemical resistance, integrated PFA valves, and customizable multi-position bottle configurations designed for trace analysis and demanding laboratory environments across semiconductor and environmental sectors.

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Application	Description	Key Benefit
Trace Metal Analysis	Concentration of samples prior to ICP-MS or ICP-OES analysis in geological and environmental labs.	Prevents blank contamination and ensures ultra-low detection limits.
Semiconductor Grade Chemicals	Testing and purification of ultra-high purity acids and photoresists used in wafer fabrication.	Maintains sub-ppb purity levels throughout the concentration cycle.
Environmental Monitoring	Evaporation of large-volume water samples for the detection of PFAS or heavy metal contaminants.	High chemical resistance to aggressive digestion acids.
Pharmaceutical Bioanalysis	Concentration of active pharmaceutical ingredients (APIs) and metabolites in aggressive solvent matrices.	Eliminates cross-contamination and ensures sample recovery.
Geochemical Research	Processing of dissolved rock and mineral samples using concentrated hydrofluoric acid.	Durable PFA components withstand HF which would etch glass.
Forensics and Toxicology	Preparation of complex biological extracts for gas chromatography and mass spectrometry.	Non-stick walls prevent the loss of trace-level organic analytes.
Petrochemical Testing	Evaporation of volatile organic compounds and hydrocarbon-based solvents in refining research.	Universal solvent resistance and safe nitrogen-based purging.

Specification Category	Parameter Description	PL-CP202 Specification Details
Model Identifier	Base Reference Number	PL-CP202 Series
Material Construction	Primary Contact Material	Ultra-high purity PFA (Perfluoroalkoxy)
Configuration Options	Standard Manifold Positions	4-way, 6-way, or Fully Custom Layouts
Valve Technology	Flow Control Mechanism	Integrated PFA needle valves for independent port control
Connection Type	Nitrogen Inlet/Outlet	Compression-style PFA fittings for leak-free operation
Vessel Compatibility	Bottle Capacity Support	Customizable to match specific laboratory vial or bottle sizes
Temperature Range	Continuous Operating Limits	Engineered for thermal stability up to 260°C (material limit)

Application	Description	Key Benefit
Specification Category	**Parameter Description**	**PL-CP202 Specification Details**
Chemical Resistance	Solvent Compatibility	Universal (Acids, Bases, Organics, HF, Aqua Regia)
Manufacturing Method	Fabrication Process	Precision CNC machining and high-purity molding
Customization	Bespoke Design Availability	Fully customizable dimensions, port counts, and mounting styles

Pfa Acid And Base Burette With Ptfe Valve For Corrosive Chemical Analysis And Hydrofluoric Acid Resistance Customizable Labware

Item Number: PL-CP344

Introduction

Premium PFA acid and base burettes featuring integrated PTFE valves for superior corrosion resistance against hydrofluoric acid. These professional customizable laboratory instruments ensure high-purity trace analysis and precise fluid control within demanding industrial or chemical research environments globally trusted daily.

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Application	Description	Key Benefit
Semiconductor Processing	Precise dispensing and titration of hydrofluoric acid (HF) and etching solutions.	Superior resistance to HF which melts standard glass burettes.
Trace Metal Analysis	Handling of high-purity reagents for ICP-MS and ICP-OES sample preparation.	Ultra-low leaching profile prevents background noise and contamination.
Graphene Oxide Synthesis	Titration and acid washing involving concentrated sulfuric acid and potassium permanganate.	Resists strong oxidants and high-heat reactions during GO synthesis.
Geochemical Exploration	Analysis of mineral samples requiring digestion with aggressive acid mixtures.	Robustness in field labs and extreme chemical environments.
Petrochemical Testing	Acid and base number determination in oil and lubricant samples using corrosive solvents.	Universal compatibility with both organic solvents and aqueous reagents.
Pharmaceutical Synthesis	Precise control of reactants in the production of high-purity active ingredients.	Ensures batch consistency and meets strict purity standards.

Specification Category	Parameter Details (PL-CP344)
Core Material	High-Purity Virgin PFA (Perfluoroalkoxy)
Valve/Stopcock Material	CNC-Machined Virgin PTFE (Polytetrafluoroethylene)
Chemical Resistance	Universal (HF, H2SO4, HNO3, HCl, NaOH, KOH, etc.)
Temperature Range	-200°C to +260°C (Material performance range)
Customization Options	Bespoke lengths, custom diameters, and specialized mounting brackets
Volume Capacity	Customizable (Standard and non-standard volumes available)
Graduation Markings	Laser-etched or permanent molded scales (Configurable)
Valve Type	Acid-Base Universal PTFE Needle Valve or Plug Valve
Connection Type	Customizable fittings for integration into complex fluid systems
Purity Grade	Trace analysis grade with minimal extractable ions

Kintek
Head Quarter: No.89 Science Avenue, High-Tech Zone,
Zhengzhou, China

info@kindle-tech.com | https://kintek-solution.com