

High Purity Ptfе Pfa Burette Translucent Acid Base Resistant Reusable Laboratory Titration Equipment

Item Number: PL-CP170



Introduction

This high-purity PFA and PTFE titration system provides universal chemical resistance for aggressive acid-base analysis, ensuring zero ion leaching in trace experiments while offering durable, reusable, and fully customizable designs for professional industrial laboratory procurement needs and expert workflows.

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Application	Description	Key Benefit
Tobacco Component Analysis	Titration of strong oxidizing reagents like perchloric acid used in tobacco leaf digestion.	Prevents container corrosion and ensures measurement accuracy in harsh acidic media.
Trace Metal Determination	Handling and measuring high-purity reagents for ICP-OES and ICP-MS sample preparation.	Eliminates background interference caused by ion leaching from container walls.
Semiconductor Grade Chemical Prep	Precise measurement of hydrofluoric acid and etching mixtures used in wafer processing.	Universal resistance to HF which would instantly dissolve standard glass equipment.
Biochar Composite Research	Processing of highly alkaline solutions and photocatalytic degradation kinetic experiments.	Ensures reagent purity and prevents impurities from interfering with reaction kinetics.
Pharmaceutical Synthesis	Monitoring acid-base concentrations during the synthesis of high-purity active ingredients.	Prevents contamination from plasticizers or stabilizers found in lower-grade plastics.
Petrochemical Testing	Analysis of acidic components in crude oil and refined petroleum products.	Robustness against organic solvents and high-temperature hydrocarbon streams.
Environmental Water Testing	Volumetric analysis of pollutants and trace contaminants in industrial wastewater samples.	High durability and ease of decontamination for high-volume environmental monitoring.
Custom Electrochemical Research	Serving as a reagent delivery component in bespoke electrochemical cell setups.	Allows for precision dosing in non-standard, highly specialized reaction vessels.

Feature	Specification Details for PL-CP170
Model Identifier	PL-CP170 (Custom Configuration)
Primary Material	High-Purity PTFE or Translucent PFA (Perfluoroalkoxy)
Volume Capacity	Fully Customizable (Bespoke Volumetric Sizes Available)
Graduation Marking	Laser-etched or Machined Permanent Markings (Per Client Specification)
Valve Type	CNC-Machined Precision PTFE Stopcock (Lubricant-Free)
Chemical Resistance	Universal (pH 0-14, including HF and Aqua Regia)
Operating Temperature	PTFE: -200°C to +260°C; PFA: -200°C to +260°C
Trace Analysis Suitability	Low to Ultra-Low PPT Level Trace Metal Background
Surface Finish	High-precision smooth bore for minimal liquid retention
Fittings & Connections	Customizable threads (NPT, GL, etc.) or tapered joints

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Fabrication Method	100% CNC Machined or Molded based on complexity	