

High Purity Pfa Gas Washing Bottle With Ptfе Bubbling Ball For Trace Analysis And Custom Gas Filtration

Item Number: PL-CP374



Introduction

High-purity PFA gas washing bottles with PTFE bubbling balls offer contaminant-free gas filtration for trace analysis. These customizable absorption units provide superior chemical resistance and zero precipitation for demanding laboratory and industrial gas scrubbing applications.

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Application	Description	Key Benefit
Semiconductor Gas Scrubbing	Removal of acidic or basic impurities from process gases used in wafer fabrication.	Prevents metallic contamination of high-purity electronic components.
Trace Metal Analysis	Preparation and cleaning of gas samples before ICP-MS or AAS analysis.	Eliminates background noise from vessel-leached ions.
Environmental Monitoring	Absorption of SO _x , NO _x , or other pollutants from ambient air or industrial exhaust for analysis.	High collection efficiency and sample integrity.
Pharmaceutical Synthesis	Controlling gas-liquid reactions in the production of high-purity active pharmaceutical ingredients (APIs).	Ensures product purity by avoiding material interaction.
Battery Research	Filtering electrolytes or scrubbing gases during the testing of lithium-ion battery components.	Resistant to corrosive electrolytes and high-temperature gas phases.
Hydrofluoric Acid Handling	Gas washing processes involving HF gas or solutions that would etch glass labware.	Material durability where glass would fail within minutes.
Standard Laboratory Setup	General purpose gas purification and solvent drying in organic chemistry.	Long-lasting alternative to fragile and reactive glassware.

Parameter	Specification Details for PL-CP374
Model Identifier	PL-CP374 Series (Custom Variants)
Material (Body)	Ultra-High Purity PFA (Perfluoroalkoxy)
Material (Bubbling Ball)	High-Density PTFE (Polytetrafluoroethylene)
Capacity Options	Fully customizable (Standard volumes: 50ml, 100ml, 250ml, 500ml, 1000ml, 2000ml)
Temperature Range	-200°C to +260°C (-328°F to +500°F)
Chemical Compatibility	Universal (Except molten alkali metals and certain fluorine gas applications)
Cap Type	Threaded PFA screw cap with precision-machined internal seal
Port Configurations	Custom inlet/outlet sizes; available with GL45, GL32, or bespoke threadings
Wall Thickness	Customizable to meet pressure or vacuum requirements
Surface Finish	Smooth, non-stick, hydrophobic finish for minimal residue
Internal Design	Removable or fixed bubbling tube with PTFE ball diffuser
Customization	Bespoke heights, diameters, and manifold integrations available upon request