Custom Ptfe Groundwater Sampling Bucket Corrosion Resistant Detachable Fluoropolymer Sampler For Trace Analysis

Item Number: PL-CP296

Introduction

Precision-engineered custom PTFE groundwater sampling bucket for high-purity environmental monitoring. Features extreme chemical resistance, impact-resistant fluoropolymer construction, and a detachable design for easy decontamination. Optimized for corrosive wastewater and ultra-trace analysis in demanding industrial field applications.

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Application	Description	Key Benefit
Deep Well Groundwater Monitoring	Collection of groundwater samples from depths where pressure and chemical variety are high.	Chemical inertness ensures sample purity.
Petroleum Refinery Wastewater	Sampling complex effluents containing hydrocarbons, acids, and bases for regulatory compliance.	Resistance to corrosive refinery chemicals.
Acid Mine Drainage (AMD)	Monitoring highly acidic and metal-rich waters surrounding mining operations.	Prevents container corrosion and leaching.
Contaminated Site Remediation	Extracting soil pore water and groundwater to track the progress of remediation efforts.	Reliable data through zero-contamination.
High-Purity Chemical Transfer	Used as a temporary collection and transport vessel for laboratory-grade reagents.	Maintains the original purity of the reagent.
Industrial Effluent Testing	Routine monitoring of discharge points in chemical manufacturing facilities.	Durable enough for repeated daily use.
Hydrogeological Research	Scientific data collection for long-term studies on aquifer chemistry and health.	Long-term reliability and consistency.

Feature	Specification Details (Item: PL-CP296)	Options
Primary Material	High-Purity Virgin PTFE / PFA	Custom Selection Based on Inertness Needs
Capacity Range	Fully Customizable (e.g., 500mL, 1000mL, 2000mL+)	Client-Defined Volume
Outer Diameter	Engineered to fit specific well casing sizes	Custom Dimensions (Standard or Metric)
Wall Thickness	Reinforced for impact resistance	Customizable for Depth/Pressure
Connection Type	Threaded, Snap-fit, or Eyelet for cable attachment	Bespoke Mechanical Interface
Design Type	Fully Detachable / Modular	Customizable Component Count
Surface Finish	High-precision CNC smooth finish	Standard or Ultra-Smooth
Temperature Limit	-200°C to +260°C (Material Dependent)	Custom Thermal Rating
Chemical Resistance	Full spectrum (Acids, Bases, Solvents)	Universal Compatibility
Fabrication Method	End-to-end Custom CNC Machining	Precision Fabricated per Drawing