

Corrosion Resistant Pfa Syringe Translucent Visual Fluoropolymer Labware 10MI Chemical Handling Tool

Item Number: PL-CP46



Introduction

Optimize trace analysis with this high-purity translucent PFA syringe. Engineered for extreme chemical resistance and thermal stability, this precision-machined tool ensures zero contamination across semiconductor, geochemical, and pharmaceutical research applications requiring uncompromising fluid handling reliability and performance consistency today.

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| Application | Description | Key Benefit |
|---------------------------|---|---------------------------------|
| Semiconductor Fabrication | Precise dispensing of ultra-pure photoresists and etching chemicals in cleanroom environments. | Zero metallic ion contamination |
| Geochemical Digestion | Handling and transferring concentrated hydrofluoric and nitric acids during rock sample dissolution. | Complete acid resistance |
| Pharmaceutical R&D | Dosing of aggressive reagents and volatile organic compounds during drug synthesis and testing. | Material stability and purity |
| Environmental Analysis | Sampling of water and soil extracts for trace level heavy metal testing using ICP-MS. | Low detection limit integrity |
| Battery Research | Transferring corrosive electrolytes and specialized solvents in lithium-ion battery development. | Electrolyte compatibility |
| Trace Analysis Labware | Serving as a primary tool for preparing standard solutions where glass containers would leach impurities. | Unmatched sample integrity |
| High-Temp Fluid Transfer | Moving fluids in processes that exceed the temperature limits of standard PP or HDPE materials. | 260°C operational threshold |
| Petrochemical Testing | Analyzing complex hydrocarbon chains and corrosive additives in fuel and lubricant research. | Solvent and oil resistance |

| Parameter | Specification Details (Model: PL-CP46) |
|----------------------------|--|
| Base Material | High-Purity Perfluoroalkoxy (PFA) |
| Standard Capacity | 10ml (Standard Model) |
| Customization Availability | Fully Customizable (Dimensions, Volume, Fittings) |
| Thermal Resistance | -200°C to +260°C |
| Chemical Compatibility | Universal (Except molten alkali metals and fluorine gas) |
| Visual Properties | Translucent / Semi-Transparent |
| Fabrication Method | Precision CNC Machined / Custom Molded |
| Surface Finish | High-Grade Smooth Finish (Low Friction) |
| Fitting Type | Customizable (Luer Lock, Tapered, or Threaded Options) |
| Trace Metal Background | Ultra-low (Suitable for PPT level analysis) |