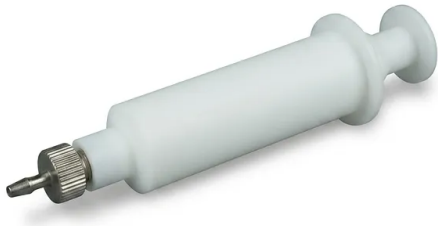


High Temperature Chemical Resistant 50MI Ptfе Syringe Customized Teflon Injector With Threaded Seal For Trace Analysis

Item Number: PL-CP14



Introduction

Engineered from virgin PTFE, this 50ml high-purity injector offers exceptional chemical resistance and thermal stability from -200°C to +250°C. Perfect for trace analysis, aggressive solvent handling, and precision dispensing in demanding laboratory environments.

[Learn More](#)

| Application | Description | Key Benefit |
|----------------------------|---|--|
| Trace Metal Analysis | Preparation and dispensing of samples for ICP-MS and ICP-OES. | Eliminates metallic contamination from the injector body. |
| Semiconductor Etching | Handling of high-purity hydrofluoric acid and etching mixtures. | Resistance to HF which dissolves glass and standard plastics. |
| Pharmaceutical Formulation | Dosing of aggressive solvents and active ingredients in sterile environments. | Non-leaching properties ensure drug purity and stability. |
| Cryogenic Research | Transfer of liquid nitrogen or ultra-cold reagents in specialized labs. | Maintains flexibility and structural integrity at -200°C. |
| Petrochemical Testing | Sampling and analysis of high-temperature oil and fuel derivatives. | Withstands thermal stress up to 250°C without deformation. |
| Electrochemical Cells | Serving as a reagent delivery or gas sampling port in corrosive cells. | High dielectric strength and universal chemical resistance. |
| Environmental Monitoring | Collection of field samples containing volatile organic compounds (VOCs). | Low permeability and non-reactive surface prevent sample loss. |

| Specification | Detail for PL-CP14 Series |
|---------------------------|---|
| Product Item Number | PL-CP14 |
| Standard Capacity | 50ml (Custom volumes available upon request) |
| Material Type | 100% Virgin PTFE (Teflon) |
| Color | Opaque Pure White |
| Continuous Operating Temp | -200°C to +250°C |
| Maximum Short-term Temp | Up to +260°C |
| Chemical Resistance | Full resistance to Acids, Alkalis, and Solvents |
| Flammability Rating | UL94 V0 (Non-flammable) |
| Surface Finish | Smooth, Non-porous CNC Machined Finish |
| Sealing Mechanism | Customizable Threaded Seals or Friction Fit |
| Permeability | Extremely Low for gases and liquids |
| Dielectric Loss | Minimum across all frequencies |
| Contamination Level | Trace Analysis Grade (Low elemental background) |