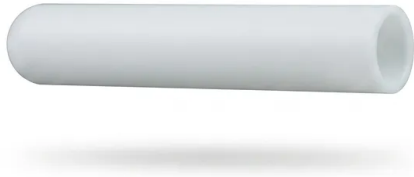


# Custom Ptfе Test Tubes Corrosion Resistant Low Background Fluoropolymer Labware 50MI 30MI

Item Number: PL-CP56



## Introduction

High-purity custom PTFE test tubes provide exceptional chemical resistance and low background interference for trace analysis. These precision-machined vessels ensure zero contamination and long-term durability in demanding laboratory environments, industrial chemical processing, and specialized fluid handling.

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Application	Description	Key Benefit
Trace Metal Analysis	Sample digestion and storage for ICP-MS and ICP-OES in environmental and clinical laboratories.	Minimizes background noise and prevents ion leaching from the vessel walls.
Semiconductor Processing	Handling and storage of high-purity etching chemicals and photoresists in wafer fabrication.	Ensures zero contamination of ultra-clean fluid paths and chemical reagents.
Hydrofluoric Acid Handling	Safe containment and transport of concentrated HF which would otherwise dissolve standard glass labware.	Absolute resistance to fluorinated acids that are hazardous to conventional materials.
Pharmaceutical Synthesis	Reaction vessels for high-purity drug intermediate development involving aggressive organic solvents.	Prevents material dissolution and ensures the purity of sensitive pharmaceutical compounds.
Geochemical Exploration	Acid digestion of geological samples using strong mineral acids for mineralogical identification.	Withstands high-temperature mineral acids without degradation or sample loss.
Nuclear Power Monitoring	Sampling of primary coolant and radioactive isotopes in power generation facilities.	High radiation resistance and chemical stability in high-temperature aqueous environments.
Petrochemical Research	Testing of corrosive lubricants and fuel additives at elevated temperatures and pressures.	Long-term durability in the presence of complex hydrocarbons and corrosive additives.
Cryogenic Storage	Preservation of sensitive biological or chemical markers in liquid nitrogen or ultra-low temperature freezers.	Remains ductile and crack-resistant at temperatures where most plastics become brittle.

Specification Category	Parameter Details (Model PL-CP56)
Core Material	High-Purity Grade Polytetrafluoroethylene (PTFE)
Fabrication Method	Precision CNC Machining (Customized Product)
Capacity Range	Fully Customizable (Commonly 30ml and 50ml variants)
Item Number	PL-CP56
Thermal Range	-200°C to +260°C
Chemical Resistance	Inert to all acids, bases, and solvents (Except molten alkali metals)
Surface Finish	Ultra-smooth machined interior with low porosity
Bottom Geometry	Customizable: Round bottom, Flat bottom, or Conical
Cap/Closure Options	Available with screw caps, push-on caps, or open-top

Application	Description	Key Benefit
Specification Category	Parameter Details (Model PL-CP56)	
Compatibility	Designed to fit standard or custom PTFE test tube racks	
Trace Purity Level	Suitable for PPT (parts-per-trillion) level analysis	
Customization Options	Wall thickness, diameter, height, and specific graduation marks	