

# Custom Ptfе Digestion Tube Double Sided Openable High Temperature Corrosion Resistant Low Background

Item Number: PL-CP261



## Introduction

Premium custom PTFE digestion tubes featuring double-sided openings for superior sample recovery and cleaning. Engineered for high-purity trace analysis with exceptional chemical resistance and low background interference. Fully customizable to meet specific laboratory requirements.

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Application	Description	Key Benefit
Semiconductor Purity Testing	Digestion of silicon wafers and high-purity chemicals to detect trace metallic impurities.	Prevents cross-contamination and maintains ultra-low detection limits.
Environmental Soil Analysis	Mineralization of soil and sediment samples using concentrated aqua regia or HF.	Total resistance to harsh acids while ensuring complete digestion of silicates.
Pharmaceutical Heavy Metals	Preparation of active pharmaceutical ingredients (APIs) for USP <232>/<233> compliance testing.	Ensures no leaching of catalysts or reagents into the sample matrix.
Geochemical Exploration	Dissolution of ore and mineral samples for elemental mapping and isotopic analysis.	Robustness against high-temperature acid mixtures over long durations.
Wastewater Monitoring	Processing of industrial effluent to monitor heavy metal concentrations and regulatory compliance.	Durable enough for high-volume, routine testing without loss of precision.
Food Safety Testing	Digestion of complex organic matrices for the analysis of pesticides and heavy metals.	Non-stick surface prevents sample carryover and simplifies cleaning between batches.

Specification Parameter	Details for PL-CP261
Model Identifier	PL-CP261
Material Composition	High-Purity Virgin PTFE (Polytetrafluoroethylene)
Opening Configuration	Dual-ended (Double-sided openable) with threaded closures
Temperature Range	Continuous service up to 260°C (subject to pressure conditions)
Chemical Resistance	Universal resistance to all acids, bases, and organic solvents
Dimensions (OD/ID)	Fully customizable per manufacturer specifications
Vessel Length	Bespoke options available based on customer requirements
Volume Capacity	Customizable to suit various digestion block standards
Closure Type	Precision-machined screw caps with integrated sealing surfaces
Background Levels	Optimized for trace analysis (Low-background certified)
Manufacturing Method	High-precision CNC machining from solid fluoropolymer stock