

High Purity Corrosion Resistant Pfa Microwave Digestion Vessels 55ml Replacement Tubes For Trace Analysis

Item Number: PL-CP111



Introduction

Premium 55ml PFA microwave digestion vessels offer exceptional chemical resistance and thermal stability for trace analysis. Precision-engineered for compatibility with major digestion systems, these customizable high-purity tubes ensure reliable performance in demanding laboratory environments. Contact us for custom quotes now.

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Application	Description	Key Benefit
Environmental Analysis	Digestion of soil, sediment, and sludge samples for heavy metal quantification.	Complete recovery of volatile elements with zero cross-contamination.
Pharmaceutical Testing	Preparation of Active Pharmaceutical Ingredients (APIs) and excipients for impurity testing.	Compliance with stringent USP <232>/<233> purity standards.
Food & Beverage Safety	Dissolving food matrices to detect trace levels of arsenic, lead, and cadmium.	High-throughput processing with reliable pressure containment.
Geochemical Exploration	Acid digestion of ore, rock, and mineral samples for elemental mapping.	Resists high concentrations of Hydrofluoric acid (HF).
Petrochemical Analysis	Breakdown of polymers and crude oil derivatives for catalyst residue analysis.	Safe handling of high-pressure reactions at elevated temperatures.
Clinical Research	Digestion of biological tissues and fluids for toxicological screening.	Ultra-low blank values for high-sensitivity measurements.

Specification	Details for PL-CP111
Model Identification	PL-CP111 (Customizable Series)
Standard Volume	55ml (Custom volumes available upon request)
Primary Materials	High-Purity PFA, Modified PTFE (TFM), or standard PTFE
Process Method	Full CNC Machining (Customizable per user drawings)
Thermal Range	Continuous use up to 260°C (Material dependent)
Chemical Compatibility	Universal (HF, HNO3, HCl, H2SO4, Aqua Regia)
Compatibility	Precision-matched for major imported microwave digester brands
Inner Surface Finish	Mirror-smooth, hydrophobic for easy drainage
Customization Options	Vessel height, diameter, wall thickness, and cap threading
Pressure Rating	Designed to meet or exceed OEM vessel specifications