

# Custom High Purity Tfm Microwave Digestion Vessel 100MI Capacity Compatible Replacement Liner For Professional Analytical Instruments

Item Number: PL-CP175



## Introduction

Optimize sample preparation with high-purity TFM microwave digestion vessels. Engineered for 100ml capacity and extreme chemical resistance, these custom-fabricated liners ensure reliable trace analysis and seamless compatibility with original laboratory instrumentation. Contact us for bespoke solutions.

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Application	Description	Key Benefit
Environmental Analysis	Digestion of soil, sediment, and wastewater samples for heavy metal detection.	High resistance to HF and HCl mixtures used in mineral acid digestion.
Pharmaceutical Testing	Preparation of active pharmaceutical ingredients (APIs) and excipients for USP <232> compliance.	Ultra-low background levels for sensitive trace metal analysis.
Food & Agriculture	Decomposition of complex organic matrices such as grains, meats, and dairy for nutritional analysis.	Rapid sample turnover due to optimized heat transfer and cleaning.
Petrochemical Research	Analysis of catalyst residues and trace impurities in crude oils and polymers.	Structural integrity at high temperatures required for oil digestion.
Mining & Metallurgy	Solubilization of geological ores and alloy samples for elemental composition verification.	Robustness against aggressive leaching reagents and high mineral loads.
Clinical Research	Digestion of biological tissues and fluids for toxicological screening.	Biocompatible material prevents sample degradation or contamination.

Specification Category	Parameter Details	Product Identifier: PL-CP175
Core Material	High-Purity Modified TFM (PTFE-TFM)	Optimized for Microwave Digestion
Capacity	100ml Nominal Volume	Customizable per requirements
Manufacturing Process	5-Axis CNC Precision Machining	Bespoke Fabrication
Temperature Limit	Optimized for standard digestion protocols	Custom to application
Pressure Rating	Engineered for high-pressure microwave environments	Verified per design specification
Compatibility	Fully compatible with XT9906 and similar platforms	Original instrument match
Surface Quality	Ultra-smooth Ra < 0.4µm	Prevents sample carryover
Chemical Resistance	Full resistance to Aqua Regia, HF, and Perchloric Acid	Industrial Grade