High Purity Tfm Microwave Digestion Vessels Ptfe Acid Evaporation Liners Domestic Gt-400 Equivalent Laboratory Reaction Containers

Item Number: PL-CP320

Introduction

Premium PTFE and TFM microwave digestion vessels designed as high-performance replacements for GT-400 systems ensuring trace metal purity and chemical resistance for demanding laboratory digestion and acid evaporation processes with full custom fabrication capabilities available for unique requirements and specifications.

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Application	Description	Key Benefit
Soil and Sediment Digestion	Complete dissolution of environmental solids using concentrated acid mixtures for heavy metal profiling.	Total recovery of trace elements with zero substrate contamination.
Food Safety Testing	Breaking down complex organic matrices in food products to detect toxic elements like Lead, Arsenic, and Cadmium.	High throughput and reliability for regulatory compliance testing.
Pharmaceutical API Analysis	Digesting active pharmaceutical ingredients to ensure mineral purity and absence of catalyst residues.	Meets stringent USP and EP standards for trace metal limits.
Geochemical Exploration	Dissolving mineral ores and rock samples for precise elemental mapping and mineralogical research.	Exceptional resistance to Hydrofluoric acid used in silicate dissolution.
Petrochemical Catalyst Recovery	Processing spent catalysts and petroleum products to analyze metal content and purity.	Durable performance under high-pressure organic solvent reactions.
Wastewater Monitoring	Rapid digestion of aqueous samples with high particulate loads for environmental monitoring.	Faster processing times compared to traditional open-vessel digestion.

Specification Category	Parameter Details for PL-CP320
Model Identifier	PL-CP320
Primary Material	High-Purity TFM / PTFE (Application Dependent)
Compatible Systems	GT-400 and similar domestic microwave digestion units
Fabrication Method	End-to-end precision CNC machining
Chemical Compatibility	Universal (HF, HNO3, HCl, H2SO4, Aqua Regia, Organic Solvents)
Temperature Range	Fully customizable based on specific vessel wall thickness
Pressure Rating	Custom engineered to meet specific application safety margins
Internal Surface Finish	High-gloss, low-porosity machined finish
Dimensional Specs	Custom produced to order; standard GT-400 dimensions available
Trace Purity Level	Grade suitable for ICP-MS and ICP-OES analysis