

High Purity Ptfе Microwave Digestion Vessel Replacement For Gt-400 Systems Acid Reflux And Sample Preparation

Item Number: PL-CP145



Introduction

Upgrade your laboratory sample preparation with high-purity PTFE microwave digestion vessels designed as premium replacements for GT-400 systems. These customizable fluoropolymer tanks offer superior chemical resistance and thermal stability for demanding acid digestion and reflux industrial applications.

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Application	Description	Key Benefit
Environmental Analysis	Digestion of soil, sediment, and sludge samples for heavy metal quantification.	Complete dissolution of silicates using HF without vessel degradation.
Food Safety Testing	Preparation of organic matrices like grains, oils, and animal tissues for elemental analysis.	Rapid decomposition of organic matter with minimal acid volume.
Pharmaceutical Quality Control	Testing for elemental impurities in active pharmaceutical ingredients (APIs) and excipients.	Complies with strict purity standards by eliminating leaching from the vessel walls.
Petrochemical Research	Digestion of catalysts, crude oil, and lubricant additives for trace metal monitoring.	Withstands high pressure and temperature for difficult-to-dissolve hydrocarbons.
Metallurgy & Mining	Dissolution of ores, alloys, and geological samples for mineralogical assessment.	Robust performance against aggressive acid mixtures and high mineral loads.
Specialty Chemicals	Testing high-purity chemicals and polymers for trace contaminants.	Maintains ultra-low blank levels necessary for high-sensitivity detection.

Attribute	Specification for PL-CP145
Model Number	PL-CP145
Material Construction	High-Purity PTFE / Modified TFM / PFA (Optional)
Compatibility	Replacement for GT-400 Microwave Digestion Systems
Dimensional Parameters	Fully Customizable via CNC Fabrication
Working Volume	Custom per client requirements
Pressure Rating	Variable based on custom wall thickness and design
Temperature Limit	Optimized for standard microwave digestion ranges
Design Type	Bespoke Laboratory Setup / Non-standard Machined Part
Surface Finish	High-precision polished interior and exterior