

Corrosion Resistant PTFE Digestion Tubes For Graphite Digestion Systems With Reflux Caps And Customizable Dimensions

Item Number: PL-CP128



Introduction

High-performance corrosion resistant PTFE digestion tubes for graphite block systems feature acid reflux caps and superior chemical inertness. Fully customizable dimensions ensure seamless integration with existing laboratory equipment for precise trace metal analysis and demanding sample preparation workflows.

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Application	Description	Key Benefit
Environmental Analysis	Digestion of soil, sediment, and sludge samples for heavy metal detection and monitoring.	Ultra-low blank values for accurate trace detection.
Geochemical Exploration	Dissolution of mineral ores and rock samples using concentrated hydrofluoric and nitric acids.	Complete resistance to HF and extreme mineral acids.
Food & Agriculture	Sample preparation of organic matter for nutrient profiling and toxin analysis via ICP-MS.	Non-stick surface prevents sample loss and cross-contamination.
Pharmaceutical Testing	Digestion of active pharmaceutical ingredients (APIs) and excipients for catalyst residue testing.	Guaranteed zero leaching of metallic or organic impurities.
Petrochemical Quality	Analysis of polymers, crude oils, and lubricants for trace elemental impurities.	Robust performance in high-temperature organic digestion.
Metallurgy	High-temperature dissolution of alloys and specialty metals for compositional verification.	Long-term durability against aggressive reagents at heat.
Cleanroom Trace Analysis	Preparation of semiconductor materials and high-purity chemicals in ISO-rated environments.	High-purity PFA/PTFE grades ensure analytical precision.

Specification Category	Parameter Details (PL-CP128 Series)
Base Material	High-Purity PTFE (Polytetrafluoroethylene) / PFA optional
Manufacturing Process	End-to-end precision CNC machining from solid fluoropolymer stock
Tube Diameter	Customizable to match any graphite block well diameter (e.g., 30mm, 50mm, etc.)
Tube Height	Customizable according to sample volume and block depth requirements
Wall Thickness	Engineered for optimal thermal transfer and mechanical strength (Customizable)
Cap Configuration	Reflux cap, flat seal cap, or acid removal (vented) cap available
Temperature Range	Continuous service up to 260°C (PTFE)
Chemical Resistance	Universal resistance to almost all acids, bases, and organic solvents
Cleaning Protocol	Compatible with acid boiling, ultrasonic cleaning, and automated washers
Custom Features	Graduation marks, specialized threading, or unique base geometries available