

Corrosion Resistant Pfa Translucent Reaction Bottle With Ptfе Screw Cap And Standard 19 24 Ground Joint Neck For High Temperature Lab Applications

Item Number: PL-CP330



Introduction

High-performance PFA translucent reaction bottles with PTFE screw caps offer near-universal chemical resistance and high-purity trace analysis capabilities. Featuring standard 19/24 necks and exceptional thermal stability, these custom-engineered laboratory solutions ensure zero-contamination for demanding industrial chemical synthesis processes.

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Application	Description	Key Benefit
Trace Metal Analysis	Preparation and storage of samples for high-sensitivity spectroscopy.	Zero leaching of metal ions ensures ppb/ppt accuracy.
Graphene Oxide Synthesis	Handling concentrated sulfuric acid and strong oxidants during GO production.	Complete resistance to aggressive oxidation and acid corrosion.
Semiconductor Wet Chemistry	Etching and cleaning processes involving hydrofluoric acid and high-purity solvents.	Prevents contamination in critical electronic component manufacturing.
Petrochemical Analysis	Digestion and testing of refinery wastewater containing complex organic loads.	High durability against mixed-waste chemical attacks.
Pharmaceutical Synthesis	Reaction vessel for the development of active pharmaceutical ingredients (APIs).	Ensures high chemical purity and prevents cross-batch contamination.
Geochemical Digestion	Dissolution of rock and mineral samples using concentrated mineral acids.	Thermal stability allows for efficient pressurized acid digestion.
Volatile Reagent Storage	Long-term containment of high-purity acids and volatile organic compounds.	Superior sealing prevents vapor loss and maintains reagent concentration.
Hydrothermal Processing	Used as a liner or vessel for controlled temperature chemical reactions.	Excellent thermal range supports high-pressure synthesis conditions.

Parameter	Specification Detail (Model PL-CP330)
Product Item Number	PL-CP330
Material Construction	High-Purity Perfluoroalkoxy (PFA) Body
Cap/Seal Material	Machined Polytetrafluoroethylene (PTFE)
Standard Neck Interface	19/24 Ground Joint (Standard)
Closure Type	High-Torque Screw Cap with Precision Seal
Chemical Compatibility	Universal (including HF, Aqua Regia, and Strong Bases)
Thermal Range	-200°C to +260°C (Continuous Service)
Surface Finish	Smooth, Non-Porous, Trace Analysis Grade
Optical Property	Translucent (Visible Reaction Monitoring)

Application	Description	Key Benefit
Parameter	Specification Detail (Model PL-CP330)	
Customization	Full CNC fabrication available for non-standard volumes and dimensions	
Cleaning Protocol	Compatible with acid leaching and steam sterilization	