

Ptfe Square Tank Acid Pickling Bath Corrosion Resistant Integrated Rectangular Container With Lid

Item Number: PL-CP08



Introduction

High-performance PTFE square tanks and acid baths providing absolute chemical resistance and leak-proof reliability. Engineered through integral molding for demanding laboratory pickling, immersion, and fluid storage applications where high purity and thermal stability are essential.

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Application	Description	Key Benefit
Semiconductor Cleaning	Immersion of silicon wafers in hydrofluoric acid baths to remove oxide layers and impurities.	Zero metallic contamination and high HF resistance.
Trace Metal Analysis	Used as a digestion tank or pickling station for preparing samples in geological and environmental labs.	Extremely low leaching levels for high-accuracy results.
Pharmaceutical Synthesis	Holding tank for reactive intermediates and organic solvents during large-scale drug formulation.	Inertness prevents secondary reactions with the vessel.
Metallurgical Pickling	Removal of surface oxides from precision components using heated aqua regia or sulfuric acid.	High temperature tolerance and acid durability.
Electrochemistry	Serving as a reservoir or cell body for electrolytes in battery testing and plating experiments.	Excellent dielectric properties and chemical stability.
Aerospace Degreasing	Deep cleaning of complex engine components using aggressive solvents and chemical strippers.	Robust integrated design prevents leaks under stress.
Food & Beverage Lab	Storage of flavoring agents and additives that require non-stick surfaces for total recovery.	FDA-compliant material properties and easy cleaning.
Chemical Distribution	Serving as a circulating tank for high-purity reagent delivery systems in industrial plants.	Long service life reduces maintenance downtime.

Parameter	Specification Details (Item: PL-CP08)
Base Material	High-Purity Polytetrafluoroethylene (PTFE)
Manufacturing Method	One-piece Seamless Integral Molding
Standard Shapes	Rectangular Square, Circular, or Bespoke Geometry
Temperature Range	-200°C to +250°C (-328°F to +482°F)
Chemical Resistance	Acids, Bases, Solvents (HF, Aqua Regia, H2SO4, etc.)
Surface Energy	Extremely low (Non-stick properties)
Moisture Absorption	<0.01%
Standard Capacities	Custom sized to volume requirements
Optional Accessories	Matching PTFE Lids, Drainage Ports, Mounting Flanges
Color	Opaque White
Cleaning Protocol	Autoclavable; compatible with ultrasonic cleaning