

# High Purity Virgin Ptfе Square Tank Corrosion Resistant Acid Soaking Vessel Custom Fluoropolymer Industrial Cleaning Tank

Item Number: PL-CP196



## Introduction

Expertly engineered virgin PTFE square tanks designed for ultra-pure acid soaking and corrosive chemical handling. These custom-fabricated fluoropolymer vessels ensure zero contamination and extreme chemical resistance for semiconductor, laboratory, and high-precision industrial cleaning applications worldwide.

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Application	Description	Key Benefit
Semiconductor Wafer Etching	High-purity acid soaking for silicon wafers and microelectronic components.	Zero trace metal leaching preserves wafer integrity and yield.
Trace Element Analysis	Pre-cleaning and acid-leaching of laboratory glassware and PFA bottles.	Removes background contaminants to ensure analytical accuracy at the ppb/ppt level.
Medical Device Passivation	Controlled chemical treatment of surgical instruments and implants.	Biocompatible and chemically inert surface prevents device contamination.
Aerospace Component Cleaning	Degreasing and deoxidizing of high-precision aerospace fasteners and parts.	Resistance to aggressive deoxidizers provides a safe, long-lasting cleaning station.
Battery Research	Handling and mixing of corrosive electrolytes for lithium-ion and flow battery testing.	Stability against aggressive electrolytes prevents container degradation and side reactions.
Precious Metal Refining	Chemical digestion and recovery processes involving concentrated acids and high heat.	Durable construction withstands extreme chemical stress and thermal cycling.
Pharmaceutical Processing	Storage and blending of high-purity active pharmaceutical ingredients (APIs).	FDA-compliant material properties ensure no leaching into the product stream.

Specification Category	Parameter Details for PL-CP196
Product Item Number	PL-CP196
Material Composition	100% Virgin Polytetrafluoroethylene (PTFE)
Chemical Resistance	Universal (Except for molten alkali metals and elemental fluorine)
Temperature Range	-200°C to +260°C (-328°F to +500°F)
Fabrication Method	Custom CNC Machining / High-Strength Welding
Dimensional Availability	Fully Customizable (Length, Width, Height to user specs)
Wall Thickness	Tailored to volume requirements to prevent deformation
Surface Finish	High-precision smooth finish (R <sub>z</sub> ≤0.4μm available)
Optional Accessories	Matching PTFE Lids, Drainage Ports, Internal Dividers, Handles
Compliance	Suitable for high-purity trace analysis and semiconductor standards