

High Temperature Resistant PTFE White Screw Plugs Custom T Shaped Sealing Hole Stoppers Waterproof Dustproof Chemical Inert Laboratory Fasteners

Item Number: PL-CP274



Introduction

Discover high-performance PTFE white screw plugs designed for extreme chemical environments and high temperatures up to 260°C. These customizable sealing solutions offer superior corrosion resistance, low friction, and reliable waterproof protection for industrial laboratory and fluid handling applications.

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| Application | Description | Key Benefit |
|-------------------------------|--|--|
| Chemical Reactor Sealing | Plugging unused ports in high-pressure or high-temperature reaction vessels. | Absolute chemical resistance prevents leakage and corrosion. |
| Semiconductor Wet Benches | Sealing fluid lines in cleanroom environments where metal contamination must be avoided. | High-purity white PTFE ensures no trace metal leaching. |
| Food & Beverage Processing | Protecting equipment ports in high-heat sterilization and wash-down zones. | FDA-compliant material properties and easy-to-clean surface. |
| Metallurgical Refining | Sealing components in aggressive acid baths and high-temperature electrolytic processes. | Thermal stability up to 260°C prevents seal failure. |
| Pharmaceutical Fluid Transfer | Providing dustproof and waterproof caps for sterile fluid storage and transport tanks. | Excellent moisture barrier and non-reactive surface finish. |
| Laboratory Trace Analysis | Plugging digestion tubes and reagent bottles to prevent sample contamination. | Repels oils and water, maintaining sample purity levels. |
| Aerospace Hydraulic Systems | Temporary or permanent sealing of hydraulic ports during maintenance or operation. | Anti-galling properties ensure easy removal without thread damage. |
| High-Vacuum Environments | Utilizing the low outgassing properties of PTFE to seal vacuum chamber ports. | Maintains vacuum integrity without contaminating the atmosphere. |

| Parameter | Specification Detail for PL-CP274 | Customization Capability |
|---------------------|--|---|
| Model Identifier | PL-CP274 | Available in multiple variant sizes |
| Primary Material | Virgin PTFE (Polytetrafluoroethylene) | Custom blends (Glass/Carbon filled) available |
| Color | Opaque White | Natural or custom color-coding on request |
| Temperature Range | -200°C to +260°C (-328°F to +500°F) | Stable across full operating range |
| Thread Standards | Metric, NPT, BSPP, BSPT, UN, UNC, UNF | Fully customizable to client specifications |
| Geometric Profile | T-Shaped Plug / Screw-in Stopper | Bespoke CNC geometries per technical drawing |
| Chemical Resistance | Universal (Excluding molten alkali metals) | Resistant to acids, bases, and solvents |
| Surface Friction | Extremely Low (Self-lubricating) | Prevents seizing in threaded assemblies |
| Sealing Mechanism | Mechanical Compression / Thread Interface | Custom O-ring grooves or tapers available |

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|------------------------------|-----------------------------------|--|
| Parameter | Specification Detail for PL-CP274 | Customization Capability |
| Manufacturing Process | Precision CNC Machining | Supports complex non-standard machined parts |
| Standard Compliance | High-Purity Grade | Suitable for trace analysis and food-grade use |