

Ptfe Anti Scald Heat Insulation Sleeve Hot Plate Support Feet Laboratory Benchtop Protection Customizable Thermal Barrier

Item Number: PL-CP165



Introduction

Protect laboratory benchtops with customizable PTFE anti-scald insulation sleeves and support feet. Engineered for high-temperature stability and chemical resistance, these bespoke components ensure safe thermal isolation for hot plates and sensitive equipment in modern high-performance research environments.

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Application	Description	Key Benefit
Acid Digestion Systems	Providing support feet for high-temperature digestion blocks used in trace metal analysis.	Prevents benchtop corrosion and thermal damage from concentrated acids.
Semiconductor Cleanrooms	Thermal isolation for wafer heating plates and chemical baths within controlled environments.	Zero-contamination support with high chemical and heat resistance.
Pharmaceutical R&D	Protecting lab benches from high-capacity stirrers and heating mantles during synthesis.	Ensures stable, level operation of heating equipment while protecting surfaces.
Analytical Chemistry	Custom sleeves for burette stands and titration equipment near heat sources.	Precise fit and thermal protection for sensitive glass measuring instruments.
Pilot Plant Reflux Setups	Supporting large-scale glass reactors and condensation units on mobile workstations.	Vibration damping and thermal barrier for heavy-duty reaction apparatus.
Electrochemical Cell Testing	Insulating battery testing fixtures and heating jackets from electrical and thermal interference.	Combined dielectric strength and thermal isolation for sensitive electronics.
Forensic Laboratory Sampling	Safe handling of heating tools and sample prep equipment on various bench materials.	Broad compatibility with various benchtop finishes including epoxy and phenolic resin.

Specification Category	Parameter Details (PL-CP165)
Core Material	High-Purity Polytetrafluoroethylene (PTFE)
Manufacturing Process	Precision CNC Machining / Lathe Turning
Height Configuration	Fully Customizable based on user application
Internal Aperture	Bespoke sizing to fit specific hot plate feet or columns
Hole Count / Pattern	Custom-drilled per client specification
Operating Temperature Range	-200°C to +260°C (-328°F to +500°F)
Chemical Compatibility	Universal (resistant to all common acids, bases, and solvents)
Coefficient of Friction	Extremely Low (0.05 to 0.10)
Thermal Conductivity	~0.25 W/m·K (provides excellent insulation)
Flammability Rating	UL 94 V-0 (Self-extinguishing)
Water Absorption	<0.01% (ASTM D570)

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Surface Finish	Smooth, non-porous machined finish	