



PUF Panels

For Stability Chambers and
other Pharmaceutical Applications

Tristar Equipments Pvt Ltd.
30+ years of PUF Panel Expertise

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In the pharmaceutical industry, stable environmental conditions are crucial for product safety and efficacy.

Temperature and humidity fluctuations can degrade sensitive compounds.

Strict air quality control is necessary to meet Good Manufacturing Practice (GMP) standards.

Conventional materials often lack the **insulation, moisture resistance, and air-tight integrity** needed for these environments.

Your health relies on medicines,
Their health relies on *us*.



EQUIPMENTS PVT. LTD.

Manufacturer of PUF Panels for
Walk-in Stability Chambers
Environmental testing rooms
Operation Theatres
Blood Banks
Humidity Chambers
Clean Rooms
Laboratories
Cold Rooms
Freezers

Tristar's PUF panels provide superior insulation, durability, and adaptability, meeting the stringent requirements of pharmaceutical applications, ensuring operational reliability.

With nearly 30 years in PUF panel manufacturing, we bring unmatched expertise to Pharma solutions. As an ISO 9001:2000 certified company, we prioritize quality, ensuring every product meets strict BS and EN standards for reliability.

PUF Panel General Specifications

Metal Finish options:

SS304 Matte / GIPP

Panel Thickness options:

40 / 60 / 80 / 100 / 120 / 150 mm











Room Size:

Customizable as per requirement



Operating from our advanced 41,000-square-foot facility in Pimpalgaon (Baswant), we offer customizable, energy-efficient solutions, backed by technical expertise and support tailored for pharma clients. With Tristar, you're not just getting a product; you're gaining a partner dedicated to quality, compliance, and long-term value.

Key Benefits

 Superior Thermal Insulation	Low U-value ensures stable temperatures, critical for cold rooms and stability chambers with sensitive materials.
 Hygienic & Moisture-Resistant	Closed-cell structure prevents moisture and bacterial growth, maintaining sterility in clean rooms and humidity-controlled areas.
 Airtight Sealing	Minimal air infiltration helps maintain controlled environments, reducing energy costs and enhancing product integrity.
 Chemical Resistance	Panels resist disinfectants and cleaning agents, crucial for clean rooms where regular sterilization is needed.
 High Compressive Strength	Durable under heavy loads, ideal for production floors and storage rooms in high-demand conditions.
 Fire Retardant Properties	Fire-resistant to enhance safety, offering extra protection for valuable pharmaceutical inventories.
 Energy Efficiency	Reduces energy consumption with excellent insulation, supporting sustainability and cost efficiency.
 Customizable & Modular	Panels come in varied thicknesses and finishes; modular design supports easy installation, expansion, or retrofitting.
 Compliance with Industry Standards	Manufactured to meet GMP and FDA standards, ensuring regulatory compliance.
 Long-Lasting Durability	Built to endure, delivering consistent insulation and protection for long-term use in demanding settings.

Technical Specifications

Specification	Value	Description
Thermal Conductivity	0.02 - 0.024 W/m·K	Maintains consistent temperatures, crucial for stability and incubation chambers.
Density of PUF	40 ± 2 kg/m ²	Provides high insulation efficiency and structural strength.
Flammability (Fire resistance)	SE (Self-Extinguishing)	Meets fire safety standards, providing essential protection for pharmaceutical environments.
Compressive Strength at 10% deformation	2.1 kg/cm ²	Supports durability, particularly in clean rooms and high-traffic production areas.
Water (moisture) absorption at 100% RH (Relative Humidity)	0.2% of Volume	Low absorption rate minimizes humidity infiltration, preserving sensitive processes and products.

Door Accessories

Selecting the right accessories for PUF doors is essential to maintain efficiency and prolong the lifespan of the chambers. At Tristar, we expertly select and fit a wide range of door accessories, designed to ensure optimal insulation, durability, and ease of use.

Hinges

Types : Double knuckle, reversible reach-in etc.

Latch – Handle set

Airtight sealing
secure access

Door Heater

Prevents condensation
& frost buildup

Magnetic Gasket

Airtight sealing;
maintains temperature

Glass view window

Visual monitoring without
compromising thermal integrity

Strip Curtain

Controls temperature & contamination,
ideal for high-traffic areas

Door Closer

Smooth, automatic closure,
minimum temperature loss

Get in touch



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