

Vacuum Insulation Panel for Refrigeration

Vacuum insulation panels provide exceptional thermal insulation based on vacuum technology. The panels combine vacuum insulation with micropore insulation to achieve excellent heat resistance.



Product Overview

High-Efficiency Thermal Insulation

Vacuum Insulation Panels (VIP) represent a next-generation approach to thermal management, combining advanced vacuum technology with micro-pore structure. These panels provide exceptional heat insulation performance, offering an R-value up to 10 times higher than traditional materials like polyurethane. Designed for energy-conscious industries, they enable superior temperature control and space efficiency in high-performance refrigeration systems.

Technical Performance

Thermal Conductivity

1.5 mW/m.K

Max Thermal Conductivity

Edge Effect

Negligible (via nano-structured non-aluminum foil barrier)

Materials and Construction

Core Materials

Fiberglass, Silicone, Polyurethane

Compliance and Standards

Certifications

REACH Certified

Applications

Primary Applications

- Household Refrigerators
- Freezers
- Vending Machines
- Commercial Refrigeration Equipment
- Building Insulation

Benefits

Comparison Summary

Feature	Advantage
Energy Efficiency	Higher than traditional PU materials
Environment	ODS-free production and application
Installation	Easy integration
Heat Bridge	Dramatically reduced