

# 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