

# THERMAL PALLET JACKETS

## Temperature control for cold chain logistics

**In a temperature-controlled supply chain, it is critical to avoid temperature fluctuations. Losses can be significant when goods such as food and temperature-sensitive chemicals and pharmaceuticals are spoiled.**

Our quality thermal jackets safeguard the integrity of goods by moderating temperatures in transit, offering thermal solutions for cold chain managers, logistics and transport managers, retailers, agri-processes, flowers and other food security production managers.

### Benefits

Our thermally-insulated Thermal Pallet Jackets are an effective way to eliminate temperature fluctuations in the cold chain, eliminating large variations in temperature in logistics settings, minimising loss or spoiling of goods susceptible to temperature changes.

This multi-layer cover has a reflective barrier film. Heat is reflected inwards to either retain heat or keep it cool.

The middle insulation layer ensures that heat cannot be transferred in or out of the goods. The robust outer layer protects goods and the pallet cover from external damage.

### Uses

Typical applications include multi-load operations, cold store to retail outlet and intra-process stores, e.g. pharmaceutical operations, food manufacturing, retail outlets, wine industry, and cold chain logistics companies.

### Dimensions

We are able to manufacture the jackets to the exact dimensions of the pallet.



**A Velcro door-type opening allows goods to be easily placed on or removed from the unit/pallet stack.**



**POWERPLASTICS**  
COVERS & LINERS

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## Materials and specifications

- Woven Polypropylene coated material, matt silver in colour, used to protect the insulating materials from scuffing.
- Isothermal Insulation: made of recycled polyester material, expanded into a blanket nominally 40mm thick.
- Foil coated film: a reflective foil which has within itself five layers. This foil provides the reflective insulation. The thin layer of aluminium foil is coated on both sides by a layer of polyethylene and bonded to the mat.
- Reflectivity (0.96 – 0.97) and low emissivity (0.04 – 0.031) – able to withstand temperatures between -30°C and 100°C.



A custom designed multi layer thermal pallet jacket, used for temperature control in the export flowers supply chain.

## About Power Plastics

Power Plastics manufacturers a comprehensive range of covers and liners for industrial markets throughout Africa and beyond. While particular focus is placed on dry bulk logistics, our diverse range of skills and strategic industry collaborations have seen us conceptualise/engineer and manufacture logistics solutions in high volume for broader industrial and agricultural markets, as well as develop highly customised products for shorter runs. Power Plastics understands the unique logistics needs of these sectors in Africa and thrives on design challenges, seeking to add value and insight.

With 22 years' experience, our team boasts some of the very best technical, engineering, design, manufacturing and sales skills in our industry. As a company, Power Plastics is respected for its precise engineering and responsive and flexible approach to production runs. All orders can be shipped worldwide within a turnaround time of 7 to 10 days. Orders are costed in either South African Rand or US \$.

### Our product range

**Bulk commodity transport:**

Container liners, thermal container liners, pallet covers

**Water saving and retention:**

Dam and reservoir liners, dam and reservoir kits, VapourGuard

**Cold chain logistics:**

3-layer thermal pallet jackets, multi-layer thermal blankets

**Specialty covers:**

Bin liners, PVC covers, polyethylene covers, dust covers

**Other covers and liners:**

Fumigation sheeting, scaffolding sheeting, barrier netting, grain storage and swimming pool covers



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