



bizofol

Thermal
Insulation
Packaging
Solutions

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Bizofol®

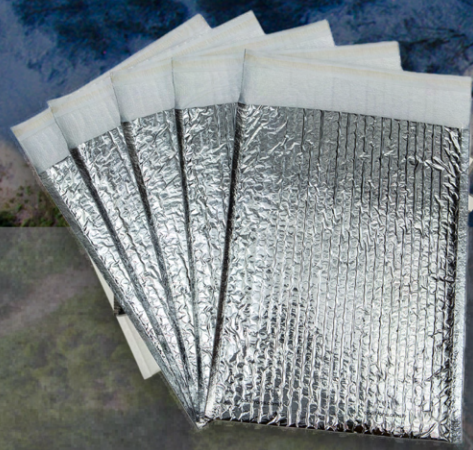
In packaging, storing and distribution of all
heat sensitive products.

About Bizofol®

Bizofol® is a radiant heat barrier, preventing heat transfer across spaces. The high reflective surface blocks up to 97% of the radiant heat, which is a significant part of heat insulation. It may incorporate air bubble film, PE foam, nonwoven or reinforcing substrates.

Bizofol® offers thermal insulation packaging solutions in various forms, from envelope size to container liner for ensuring minimized heat changes during transportation and storage.

Four Seasons on a Journey? No worries, Bizofol® got you covered.



Thermo Mailer

2 Dimensional Envelopes
With Adhesive Flap and
Zipper Closure Options



Thermo Bag

3 Dimensional Gusseted Bags
With Handle and Zipper
Closure Options



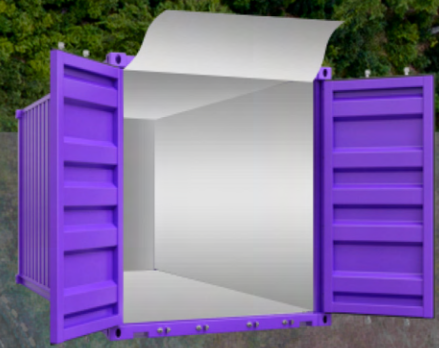
Thermo Boxliner

3 Dimensional Heat
Sealed Inlays for Boxes




Thermo Cover


3 Dimensional Heat
Sealed Covers for
Various Sizes




Thermo Liner

Container Insulation Liners

 **Food**
Fish and meat products, online food sales, catering services, frozen products, fresh fruit and vegetables, icecream, pastry, chocolate, fresh flowers

 **Logistics**
Cold chain transportation, perishable cargo transportation, land, air, sea transportation and micro-macro distributions

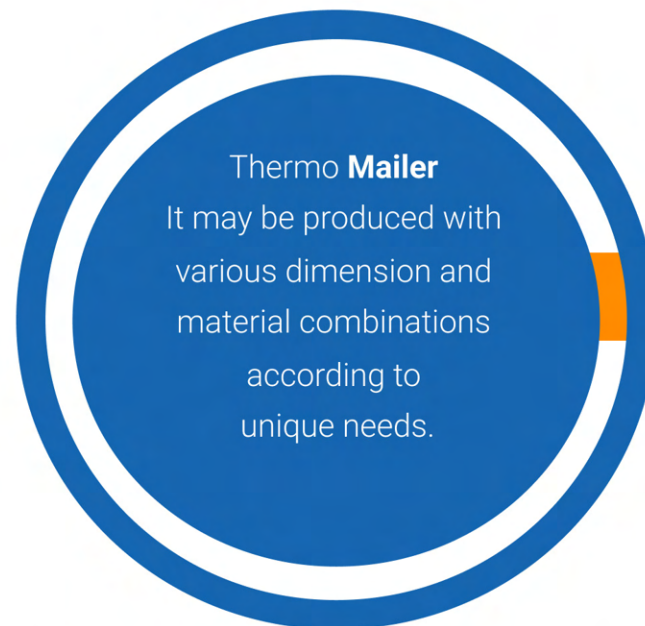
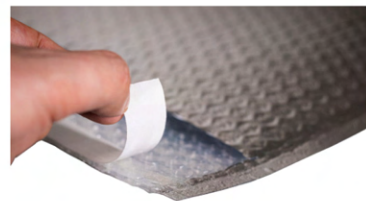
 **Medicine/Medical**
Medicine, vaccine serum, blood transportation, medicinal and medical material transportation

 **Chemical Materials**
Heat and cold sensitive all chemical materials

Thermo Mailer

Thermo Mailer is an ideal insulation packaging solution in a mailer format with a self-sealing strip on the closure, designed to protect temperature-sensitive products from outer environment conditions during transportation.

The outer reflective foil reflects up to 97% of the radiant heat and the bubble interior prevents heat transfer. Besides its superior thermal properties, the bubble liner offers padding and protection for delicate products.



Thermo Mailer
It may be produced with various dimension and material combinations according to unique needs.

Thermo Mailers can be used in combination with cooling elements to extend the period of thermal protection and maintain the integrity of the product according to the heat sensitivity of goods, weather conditions and transit time.

While we carry a range of standard products, we also offer any size and variety of layer combinations to fit packaging needs.



STANDARD DIMENSIONS

Product	Dimensions
Thermo Mailer	250x350mm 50mm Flap
Thermo Mailer	350x350mm 50mm Flap
Thermo Mailer	450x350mm 50mm Flap
Thermo Mailer	550x350mm 50mm Flap
Thermo Mailer	500x475mm 50mm Flap

APPLICATION AREAS



Food

Frozen products, dairy products, delicatessen products, chocolate



Logistics

Online sales distribution



Medicine and Medical

Medicine, vaccine, serum, blood and alike medical material transportation

In packaging, storing and distribution of all heat sensitive products.



FEATURES



THERMAL INSULATION : The reflective outer layer and bubble film lining act as a barrier against ambient temperature to maintain the inner environment temperature.



STORAGE SPACE & COST SAVINGS : Thanks to its lightweight, strong, thin-wall construction, saves you from storage space and shipping costs far more than the alternative solutions.



REDUCED WASTAGE & CARBON FOOTPRINT : As it is made of a relatively thinner material, it leads to a reduction in carbon footprint and amount of waste. Thus, it is a more environmental solution compared to most of the alternatives.



FLEXIBLE PACKAGING : The thin & flexible structure of the material allows it to fit into any package or delivery container.



PRIVACY PROTECTION : The reflective outer layer and bubble film interior keep the goods packed confidential.



LEAK & SHOCK-PROOF : Seamless bottom and heat-sealed side sealings avoid liquid leakage while the bubble film interior act as a cushion for the goods packed and avoids any damage.

Thermo Box Liner 3D

Thermo Box Liner is an ideal way to carry heat sensitive products in an ergonomic and safe manner. 3 Dimensional custom manufacturing with a bottom gusset enables numerous box sizes and prevents space loss. The self-sealing strip on the closure lets the user decide where to seal.

The Thermo Box liner is environmentally friendly compared to alternative rigid foam cooling boxes. Minimized resource usage leads to reduced waste and is an important feature of keep environmental sustainability.



Thermo **Boxliner**
It may be produced with various dimension and material combinations in line with special needs.

The lightweight and thin structure of thermo boxliners will minimize the weight of shipments and prevent exaggerated freight costs. It also takes less space in storage compared to conventional packaging enabling more effective space management.

The outer foil reflects up to 97% of the radiant heat and the bubble interior prevents heat transfer. Besides its superior thermal properties, the bubble liner offers padding and protection for delicate products.

Thermo Box Liner can be used in combination with cooling elements to extend the period of thermal protection and maintain the integrity of the product depending on the weather conditions, transit time and heat sensitivity of goods.

Thermo Box Liners are manufactured according to the internal size of boxes offering the most suitable thermal packaging solution.

APPLICATION AREAS



Food

Fish and meat products, frozen products, fresh fruits and vegetables, ice cream, chocolate



Logistics

Online sales distribution, catering services fresh flowers



Medicine and Medical

Medicine, vaccine, serum, blood and alike medical material transportation, medicinal and medical materials



Chemical Materials

Heat and cold sensitive all chemical materials



FEATURES



THERMAL INSULATION : The reflective outer layer and bubble film lining act as a barrier against ambient temperature to maintain the inner environment temperature.



STORAGE SPACE & COST SAVINGS : Thanks to its lightweight, strong, thin-wall construction, saves you from storage space and shipping costs far more than the alternative solutions.



REDUCED WASTAGE & CARBON FOOTPRINT : As it is made of a relatively thinner material, it leads to a reduction in carbon footprint and amount of waste. Thus, it is a more environmental solution compared to most of the alternatives.



FLEXIBLE PACKAGING : The thin & flexible structure of the material allows it to fit into any package or delivery container.



PRIVACY PROTECTION : The reflective outer layer and bubble film interior keep the goods packed confidential.

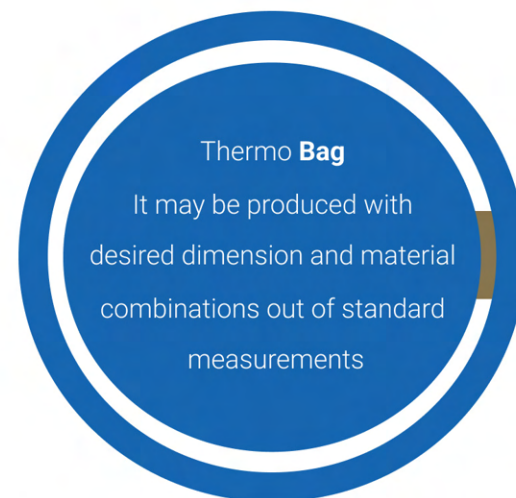


LEAK & SHOCK-PROOF : Seamless bottom and heat-sealed side sealings avoid liquid leakage while the bubble film interior act as a cushion for the goods packed and avoids any damages.

Thermo Bag

Thermo Bag is a bag with a reflective surface to protect heat sensitive products against temperature fluctuations, humidity changes and other external climate factors. Thermo Bags are produced in any dimension using a variety of layer combinations such as single bubble, double bubble and PE foam layers.





The outer foil reflects up to 97% of the radiant heat and the bubble interior prevents heat transfer. Besides its superior thermal properties, the bubble liner offers padding and protection for delicate products.

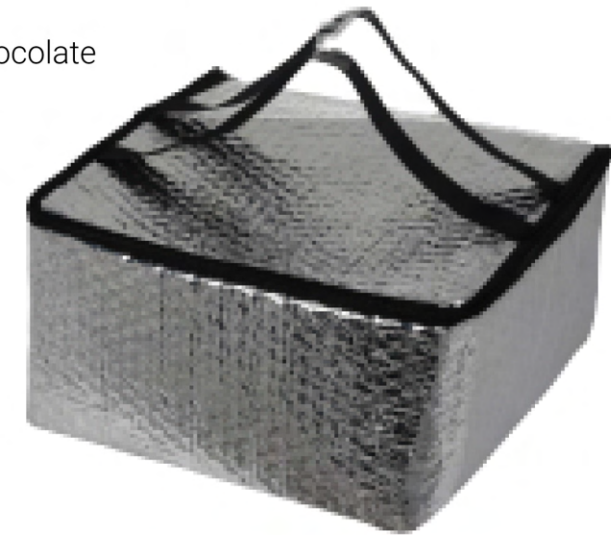


The Thermo bags can optionally be manufactured with a flat bag or a gusseted bottom which provides easy handling during product placement inside the box and is a cost-effective option. Optionally ziplock and closure tapes are two alternatives to seal the content and ensure that thermal fluctuations are prevented. Thermo bags can be produced with a handle punch which makes it easier to carry the bag.

The lightweight and thin structure of Thermo bags will minimise the weight of shipments and prevent exaggerated freight costs. It also takes less space in storage compared to conventional packaging enabling more effective space management. The minimised resource usage leads to reduced waste and is an important feature of keeping environmental sustainability. In contrast to the alternatives, the Thermo bag provides an easier handling and recycling process and most importantly leaves less carbon footprint without compromising protective and thermal performance qualities.

APPLICATION AREAS

-  **Food**
Frozen products, dairy products, delicatessen products, chocolate
 -  **Logistics**
Online soles distribution
 -  **Medicine and Medical**
Medicine, vaccine, serum, blood and alike medical material transportation
 -  **Chemical Materials**
Heat and cold sensitive all chemical materials
- In packaging, storing and distribution of all sensitive products***



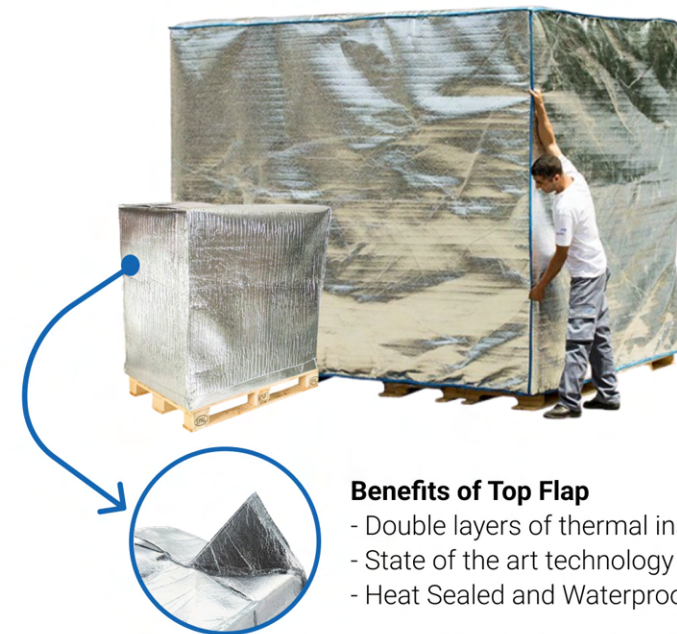
FEATURES

-  **THERMAL INSULATION:** Provides full protection against all temperature and humidity changes during transport.
-  **EASY HANDLING:** Gusseted bottom enhances easy handling and is a cost-effective option. Handle punch makes it easy to carry the thermal bag.
-  **STORAGE SPACE & COST SAVINGS:** Thanks to its lightweight, strong, thin-wall construction, saves you from storage space and shipping costs far more than the alternative solutions.
-  **FLEXIBLE PACKAGING:** The thin & flexible structure of the material allows it to fit into any package or delivery container.
-  **SEALED STRUCTURE:** Optionally ziplock and closure tapes are two ways to seal the thermal bag.



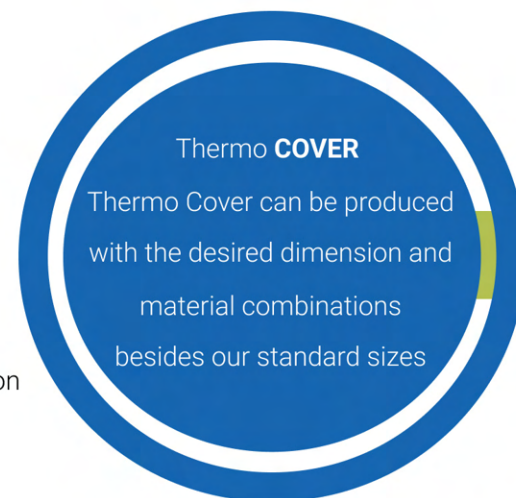
Thermo Pallet Cover

Thermo Pallet Cover is a thermal insulation pallet barrier that protects heat-sensitive products against thermal fluctuations and impacts during the transit and storage periods. Using thermal covers helps to ensure an unbroken cold chain and reduces the need for a costly excursion. Thermal pallet covers afford more time for products to move between temperature-controlled points in the chain; this allows them to be transported or stored temporarily during shipping in uncontrolled temperature environments.



Benefits of Top Flap

- Double layers of thermal insulation
- State of the art technology
- Heat Sealed and Waterproof



Thermo COVER

Thermo Cover can be produced with the desired dimension and material combinations besides our standard sizes

Thermal covers are water-resistant, puncture-resistant and leakproof which are important features that protect products from contamination during on and off-loading. The Thermal Pallet Cover is designed to minimize environmental impact and reduce stock wastage. Besides protecting products from thermal fluctuations it also cushions products with its double-layer bubble property. The pallet covers are foldable, and stackable and the lightweight structure provides cost-effective shipping solutions during warehousing and transport.

Thermal covers can be printed and customised in various different pallet sizes. The application is simple and does not require additional manpower. Pallet bottom mat, IBC tank cover, breathable membrane and velcro application on the sides are eligible options. Choosing velcro application on the junction points makes the pallet cover reusable and is a significant contribution to environmental protection and sustainability.

APPLICATION AREAS



Food

Fish and meat products, online sales distribution, catering services, dairy products, frozen products, fresh fruit and vegetables, ice cream, pastry chocolate and fresh flowers



Logistics

Cold chain transportation, perishable cargo transportation, land, air, sea transportation and micro-macro distributions



Medicine/Medical

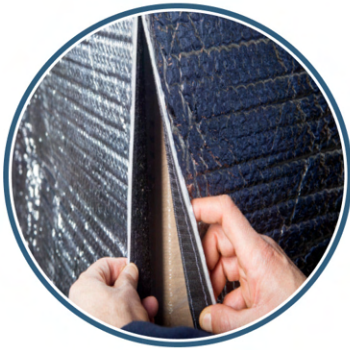
Medicine, vaccine, serum, blood and alike medical and medicinal material transportation



Chemical Materials

Heat and cold sensitive all chemical materials

In packaging, storing and distribution of all heat sensitive products.



FEATURES



THERMAL INSULATION: Provides full protection against all temperature and humidity changes during transport.



HEAT SEALED STRUCTURE: Water-resistant, puncture-resistant and leak-proof which protects products from contamination



FLEXIBLE PACKAGING: Foldable, stackable and lightweight structure provides cost-effective shipping solutions.



CUSTOMISABLE: Can be customised in different pallet dimensions



USER FRIENDLY: Simple application without the need for additional manpower.



Breathable Pallet Cover



Velcro Application



Bottom Mat

Container Liner / Thermo Liner

Thermo Liner is designed to provide thermal insulation in land, air and sea logistics by minimising the risk of temperature fluctuations. They are manufactured from high-performance insulation materials and provide thermal barriers inside the shipping container. The container liners offer repeatable thermal protection for temperature-sensitive ocean freight. By doing so they help to minimise product loss during shipping. The reduced thermal fluctuation eliminates the need for reefer containers and provides a significant contribution to cost savings in cold chain transports.



Thermo Liner
Can be produced with desired dimension and material combinations out of standard container and truck measurements.

Thermo Container Liner Set Kit

The layout is easy and can be finished within 5 minutes. 5 or 6 faced container liners are available, the 6 faced liner comes with an integrated floor cover which is thicker than others and can withstand forklift loadings. Top side is endowed with double sided adhesive tape. 20ft DC, 40ft DC and 45ft DC sizes are all equipped with an application kit which includes carabiners, ropes, magnets and turnbuckles.

Thermo Liners with reflective outer surfaces are produced in any dimensions using a variety of layer combinations such as single bubble, double bubble and PE foam layers. It can be fitted in a variety of container and truck sizes.



Thermo Container Liner Roll Kit

It comes in rolls and its implementation inside the trucks and containers is extremely easy. It provides an excellent thermal and humidity barrier. Totally eliminates moisture build-up and condensation inside the pay-loads of trucks and containers. The liner performs several functions, including reducing the damaging effects of windchill, heat build up resulting from UV radiation, and preventing moisture droplets, commonly known as 'container rain' from carton products.

APPLICATION AREAS



Logistics

In providing inner thermal insulation of land transportation vehicles and containers

FEATURES



THERMAL INSULATION: Prevents damages of heat sensitive products caused by extreme temperature changes.



CONDENSATION FREE: Avoids condensation and container rain.



COST SAVING: Eliminates the need for reefer containers and provides transport cost savings.



VERSATILE PROTECTION: Prevents damage caused by pest infestation, contamination, infiltration and mould.



USER FRIENDLY: Easy layout, application can be finished within 5 minutes.



FLEXIBLE PACKAGING: Foldable, stackable and lightweight structure provides cost-effective shipping solutions.



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