Protection to withstand the toughest weather conditions



2003 has seen the exciting launch of a product set to redefine the transport of wine and many other containerised goods.

The $E_{nMinotiff}$ I_{iner} is a new innovation to arrive in the marketplace and will quickly replace existing insulation alternatives due to its supreme efficiency and effectiveness.

The $E_{n \sqrt{linet}}$ is a product specially designed to insulate shipping containers enabling the goods within to be protected from the dangerous temperature spikes witnessed during transport.





Why use ETL

Across all industries, moving products in standard dry shipping containers can expose the goods to severe temperature fluctuations. In many cases this can cause irreversible damage to the product resulting in lost sales and expensive insurance claims.

A prime example of where temperature variations can cause havoc is during transportation of wine. Even minimal fluctuations can result in such problems as the loss of bouquet, oxidation, cork dryness and leakage; all these outcomes undoing the fine and competitive art of winemaking.

Who uses ETL

Due to ETL's affordability, ease of installation, versatility and strength, it can be used across many industries including wine, food and beverage, automotive, plastics, chemicals, computing and electronics,





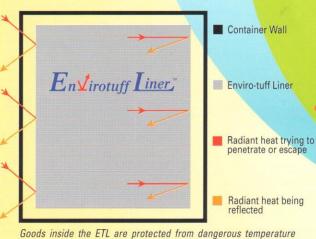
Product Range

- 20' Liner for standard ISO shipping container
- 40' Liner for standard ISO shipping container and high cube
- Insulated Heavy Duty Sealing Tapes
 Pallet Covers
- Airfreight Covers in all sizes
 Many more to come

How does ETL work

The ETL is a fully woven reflective liner that is hung into a general-purpose ISO shipping container and allows for forklift loading, hand loading and slip sheet. Once loaded it is completely sealed providing a closed off temperature & humidity controlled environment for the goods inside.

Without the proper protection of the ETL, cargo inside a container can be exposed to dangerous heat penetrating by radiation and convection. Radiation or radiant heat comes through the container wall from the outside via infrared radiation while convection is the hot air circulating throughout the container. The ETL eliminates these problems by reflecting up to 97% of the radiant heat and preventing hot or cold air coming through the sealed liner, which would affect the goods. The ETL prevents heat rapidly penetrating or escaping the liner thus ensuring greater temperature consistency for your cargo during transit.



Goods inside the ETL are protected from dangerous temperature spikes as only a very small percentage of heat (or cold) is allowed in or out of the liner due to reflective properties on both sides.



Container Liner



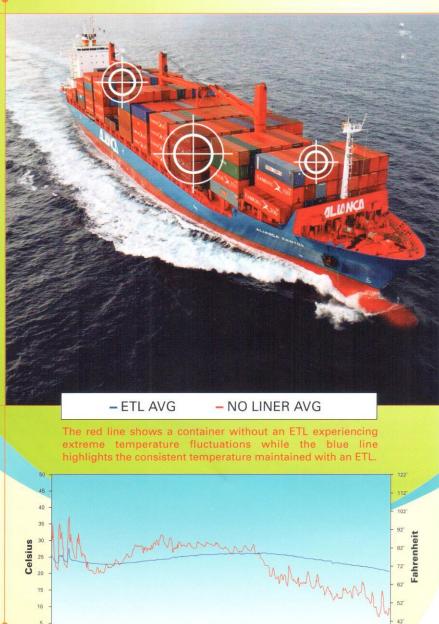
Pallet Cover



AV Cover



AV Liner



Date of Journey - Australia to UK

ETL Average Temperature v. No Liner Average

Technical Specifications ___

Properties		Test Methods	Value
Grammage		BS EN 965 : 1995	132gsm ± 20gsm
Water Vapour Transmission Rate		ASTM F1249	# 1.00g/m2/day
Emissivity (Al Surface)		ASTM C1371	# 0.05
Tensile Strength	MD TD	In-House	≥ 500 (N/50mm) ≥ 500 (N/50mm)
Elongation	MD TD	In-House	≥ 15% ≥ 15%

The ETL offers more than the alternatives. It is more cost effective and better performing than bubble wrap and thermal blankets and is much cheaper, stronger and easier to install than other types of liners. ETL does not require the use of double sided adhesive tapes, glues, mechanical blowers, etc, during installation inside an ISO container. You hang the ETL using the lashings provided & tie it to the lugs found inside the ISO container. This task can be done quickly by one operator.

The ETL is specifically designed for usage in general purpose ISO shipping containers both 20' and 40'. However, because of the versatility and ability of the E_{nN} including pallet covers and airfreight covers.

For more information on our $E_{n\sqrt[4]{liner}}$ range of products, please call your local distributor.