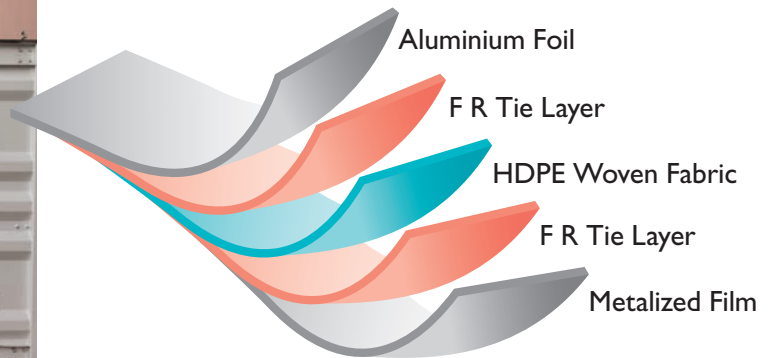


CARGO PROTECTION FOR EXTREME WEATHER CONDITIONS

BHA's Thermal Container Liner is a woven reflective liner constructed from laminate consisting of a highly reflective aluminium layer, polyethylene sheeting, fire retardant layer, woven polyethylene and a metalized layer. The liner can be fit to a standard 20ft or 40ft general purpose ISO shipping container and can be loaded via forklift, by hand or slip sheet. Once loaded and fully sealed, it protects all six sides of the container and provides a humidity controlled environment for the cargo within.



With outstanding affordability, ease of installation, versatility and strength, it can be used across many industries including wine, food and beverages, automotive, plastics, chemicals, computing and electronics.



Without correct heat protection, sensitive cargo can be exposed to three types of dangerous heat penetration:

1. **Conduction:** Occurs when the cargo makes direct contact with the container walls.
2. **Radiation:** Radiant heat penetrates the container walls via infrared radiation.
3. **Convection:** This occurs when hot air circulates throughout the inside of the container.

Benefits:

- Protects Cargo by reflecting up to 95% of radiant energy.
- Eliminates conductive heat transfer.
- Oxygen barrier, therefore no contamination can pass through to sensitive cargo.
- Moisture barrier. Due to the fact that all the temperature spikes are eliminated, dew point is never reached, thus no moisture inside the Thermal Liners.
- The container is transformed into a cleanroom environment, preventing dust and container – drip from ruining the cargo.
- Fire retardant inner layer, so if a fire starts within the container, it will be starved of oxygen.
- Woven material is strong and helps prevent tearing or ripping.



Typical Industries for Thermal Container Liners

Wine	Mineral Water	Tobacco	Fruit Juices
Beverages	Mayonnaise	Fruit Juice Concentrate	Milk Powder
Long Life Milk	Condensed Milk	Confectioneries	Pharmaceuticals
Detergents	Explosives	Cosmetics	Heat Sensitive Adhesives
Chemicals	Food Products	Computing	Electronics

Technical Values

Properties	Standard	Units	Value DG-Foil (AM 2)
Weight	Electronic Scale	GSM	130-140
Thickness	Digital Caliper	Micron	140-160
Tensile – MD	ASTM D5035	N25mm	450-600
Strength – CD	ASTM D5035	N25mm	450-600
Initial Tear – MD	ASTM DI 004	N	40-45
Resistance – CD	ASTM DI 004	N	45-50
Puncture Resistance	ASTM F-I 306-90	N	135-168
Elongation – MD	ASTM D5035	%	35-45
– CD	ASTM D5035	%	35-45
Corrosion	ASTM D331 0-00	–	None
Water Vapour Transmission	ASTM E96	ghr/m ²	0.7-1.2
Radiant Heat Reflectivity	Supplier's Specifications	%	95
Temperature Resistance	90°C for 24hrs	–	No Delamination
Water Resistance	24hrs in water	–	No Delamination

Technical information provided represents average results of tests conducted under standard procedure and are subject to variation.

No guarantee can be made regarding specific applications or patent rights