

Market leading packaging solutions



# CARGO PROTECTION

Shipping Container Desiccant  
and Dunnage Bags

Every year Australian businesses export and import millions of containers of goods from countries all over the world. During transit your shipping container is exposed to extreme temperatures, rising and falling humidity and constant movement at sea.

These erratic conditions can cause container rain, cargo sweat and cargo damage. This damage is millions of dollars in product loss and reputation of Australian companies.

Fromm Packaging provides a range of Desiccants and Dunnage Bags for Australian exporters and importers to mitigate this risk.

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AUSTRALIA

# DRY GUARD

Dry Guard desiccants are designed to hang from the inside wall of your shipping container. Manufactured from a laminated non-woven material they provide excellent water repellence and good air permeability and appear as a long thin strip with a hanging hook.

Dry Guard 1000g and 500g desiccants create a dry environment in the container. They will effectively absorb humidity and control the dew point preventing mildew and rust formation for up to 60 days with an absorption capacity up to 250 to 300%. The patented desiccant mixture turns to solid gel after full absorption.

## FEATURES

- 250 to 300% absorption capacity
- Any water is turned to a solid gel – it cannot leach
- Dry Guard can protect your cargo for up to 60 days
- Reduces the risk of container rain or cargo sweat

## BENEFITS

- No product loss
- Easy to use
- Each Dry Guard is designed to sit between the container grooves – saving loading space.

The exact amount of desiccant needed depends on the cargo, the shipping time and the type of container used.

Below are estimations based on a general purpose container with a standard 60 day journey.

Container size	Dry Guard 500g	Dry Guard 1000g
	2700.500	2700.1000
20' general purpose container	8	4-6
40' general purpose container	16	8-12
40' high cube container	16	8-12



Dry Guard hanging in container.



Any water is turned to a Solid Gel - it cannot leach.



# DRY COVER

Dry Cover desiccants are designed to be placed over your products. Manufactured from a laminated non-woven material with excellent water repellence and good air permeability, they appear as a long rectangle strip with string to attach and secure the desiccant to your products.

Palletised cargos will benefit from Dry Cover. Dry Cover is placed within the palletised product, not only controlling the atmospherics, but also picking up any moisture that may come from the use of timber pallets that have not been kiln dried. Dry Cover can be used by itself or in conjunction with Dry Guard 500/1000g depending on the cargo and its destination.

Dry Cover 1000g creates a dry environment on the pallet. It will effectively absorb humidity and control the dew point preventing mildew and rust formation for 60 days with an absorption capacity up to 250 to 300%. The patented desiccant mixture turns to solid gel after full absorption.



Dry Cover is placed over your products.

## FEATURES

- 250 to 300% absorption capacity
- Desiccant turns to solid gel
- Dry Cover can protect your cargo for up to 60 days
- Reduces the risk of container rain or cargo sweat

## BENEFITS

- No product loss
- Easy to use
- Each desiccant is less than 10mm in height – it will have minimal impact on cargo space.
- Easy to fold and manipulate
- Will prevent mildew and rust formation on your precious cargo

Below are estimations based on a general purpose container with a standard 60 day journey.

Container size	Dry Cover 1000g 2701.1000
20' general purpose container	4-6
40' general purpose container	8-12
40' high cube container	8-12



# CARGO GUARD MBD-99

Exclusive to Fromm Packaging Australia, Shipping Container Desiccant with MBD-99 protects your cargo from moisture contamination. Cargo Guard MBD-99 is specially formulated to lower the dew point inside shipping containers to guard against moisture damage whilst in transit.

Cargo Guard MBD-99 inhibits the formation of mould, mildew, rust and corrosion. Cargo Guard MBD-99 prevents humidity and moisture from weakening cartons and labels. Cargo Guard MBD-99 provides over 60 days of moisture protection and is guaranteed to absorb up to 65% of its own dry weight in moisture.

Cargo Guard MBD-99 is ideal for use in ocean, truck and rail shipping containers.

Cargo Guard MBD-99 is approved by AQIS (Australian Quarantine Inspection Services) since the late 1990's. It is the premier container desiccant and ideal for a range of Australian exporters.



## FEATURES

- Mineral based desiccant
- Hook for hanging
- Available in different sizes

## BENEFITS

- Long absorbency time
- Holds 65% of dry weight in moisture
- Does not leak or stain
- Environmentally friendly

Product Code	Container size	Desiccant Weight
2505.10T	Small cartons or unit (.2m3)	100g
2502.00	Cartons or units (.2m3)	250g
2460.00	Large boxes or pallets	500g
2520.00	Shipping containers	2000g

# SINGLE USE DUNNAGE BAGS

Movement in transit is the leading cause of product damage. Bates Cargo Pak Dunnage Bags are placed into void space & inflated to secure your load.



Bates Cargo Single Use Dunnage Bags are designed to be used for single freight journeys. Once your product reaches the destination they can be removed, deflated and recycled.

Bates Cargo Pak Dunnage Bags are easy to use. Simply position the airbag between the gaps and inflate with compressed air. In a matter of seconds your freight is secured and is guaranteed not to move for the duration of the voyage.

Manufactured from high strength special kraft paper to guarantee maximum strength and low weight. The inside consists of 3 layer PE quality film, which ensures an airtight seal and high puncture resistance.

The Bates Cargo Pak Dunnage Bag Inflation Tool has the world's fastest inflation time! Simply insert the inflation pistol into the patented valve and within 20 seconds your dunnage bag is inflated.

## FEATURES

- Bates Cargo Single Use Flex Eco Bags handle up to 9 tonnes of pressure
- Can withstand up to 90% relative humidity at 60°C
- Water resistant
- Fills voids and secures loads inside containers
- Patented valve systems which allows very quick inflation
- Airtight seal
- Made from environmentally friendly materials & can be 100% recycled
- The valve can be turned 360 Degrees, which makes it possible to inflate the airbag from all angles

## BENEFITS

- Fast inflation time
- Protects cargo whilst in transit
- Quick and simple to use
- Environmentally friendly
- Reduce your product damage claims
- Light Weight - allowing you to ship more goods

## DUNNAGE BAG CODES AND SIZES

Product Code	Bag size
711730	60cm x 110cm
711735	85cm x 120cm
711750	85cm x 185cm
711755	100cm x 120cm
711760	100cm x 150cm
711770	100 cm x 185 cm
711790	100 cm x 220 cm





# REUSABLE DUNNAGE BAGS



Reusable valve.



Bates Cargo Pak Reusable Dunnage Bags are designed for multiple uses. The patent valve system allows you to inflate and deflate the bag up to 25 times (depending on cargo type, and domestic handling).

The bag is guaranteed to hold its maximum air volume for a total of three months for each voyage. These bags are ideal for companies that often move stock between warehouses and need the reliability of a cargo protector. Saving you significant money on container fill.

Bates Cargo Pak Reusable Dunnage Bags are easy to use. Simply position the bag between the gaps and inflate with compressed air. In a matter of seconds your freight is secured and is guaranteed not to move for the duration of the voyage. Once your shipment reaches its destination you simply open the valve and the bag will deflate. You simply fold and store the bag ready for its next voyage.

Manufactured from high strength special kraft paper to guarantee maximum strength. The inside consists of 3 layer PE quality film, which ensures an airtight seal and high puncture resistance.

## FEATURES

- Bates Cargo Reusable Dunnage Bags handle up to 14 tonnes of pressure
- Can withstand up to 90% relative humidity at 60°C
- Water resistant
- Fills voids and secures loads inside containers
- Patented valve systems which allows very quick inflation
- Airtight seal
- Made from environmentally friendly materials & can be 100% recycled
- The valve can be turned 360 Degrees, which makes it possible to inflate the airbag from all angles

## BENEFITS

- Each bag can be used up to 25 times
- Ideal for intercompany movements
- Ideal for interstate transportation
- Fast inflation time
- Protects cargo whilst in transit
- Quick and simple to use
- Environmentally friendly
- Reduce your product damage claims
- Light Weight - allowing you to ship more goods

## DUNNAGE BAG CODES AND SIZES

Product Code	Bag size
711430	60cm x 110cm
711435	85 cm x 120 cm
711455	100 cm x 120 cm
711460	100cm x 150cm
711470	100cm x 185cm
711490	100cm x 220cm
711495	120cm x 240cm

# DUNNAGE BAG INFLATORS



## Dunnage Bag Inflator - With air release valve

Product code-096059

The Bates Cargo Dunnage Bag Inflator with air-release valve guarantees the fastest inflation time. The air release valve will allow you to adjust the air pressure within the bag and deflate used bags. Very easy to use, simply connect the inflator to your air compressor, position the nozzle into the patented dunnage Bag valve and press the trigger. The Dunnage Bag will fill with air within 20 seconds (depending on bag size). To adjust and release air pressure simply turn the nozzle.

### FEATURES

- Ergonomic inflation tool for Bates Cargo Dunnage Bags
- The Dunnage Bag can be inflated whilst in position
- The air release valve will allow you to adjust the air pressure within the bag and deflate used bags

### BENEFITS

- Fast inflation
- Easy to use
- Light weight ergonomic design



## Dunnage Bag Quick Inflator

Product code-096078

The Bates Cargo Dunnage Bag Quick Inflator guarantees the fastest inflation time. Very easy to use, simply connect the inflator to your air compressor, position the nozzle into the patented dunnage Bag valve and press the trigger.

The Dunnage Bag will fill with air within 8 seconds (depending on bag size).

The lock coupling acts as an extension of your arm and makes it very easy to hold the dunnage bag in the gap during inflation.

### FEATURES

- Ergonomic inflation tool for Bates Cargo Dunnage Bags
- The Dunnage Bag can be inflated whilst in position
- Perfect tool to inflate bags in tight or small spots

### BENEFITS

- Fast inflation
- Easy to use
- Light weight ergonomic design



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