

Cordstrap Products for the Citrus industry





WHO IS CORDSTRAP

-  Over 50 years Old
-  Coverage in 50 countries World wide
-  Market leader in Cargo securing systems and products
-  400 Technical Cordstrap salesman around the world
-  Manufacturing facilities
 - Oostrum, Holland
 - Dubai, UAE
-  Dedicated staff to R&D
-  Cordstrap has state of the art training centres

*"We provide the products and service to help
our clients to get their goods to the desired
destination safely and damage free"*

Dunnage bags



Dunnage bags



- ep Secures Cargo from Movement
- ep Fills voids
- ep Helps direct air
- ep Takes pressure off bottom cartons



Citrus
Growers'
Association
OF SOUTHERN AFRICA

Void Plugs



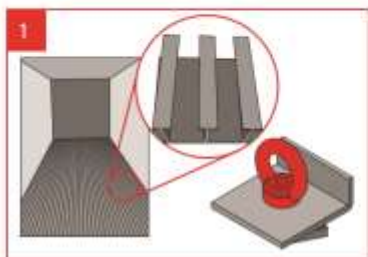
- EP New Design
- EP Secured using the pallet and door
- EP Available in Guateng, KZN and Western Cape
- EP Cant move once inserted



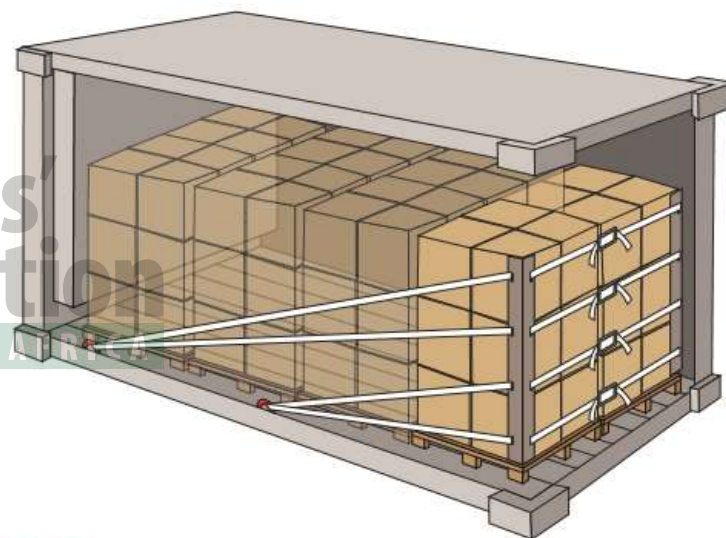
REEFER LASHING POINT



Reefer Lashing point



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AnchorLash®	Anchor Point MSL 1.000 daN / 2,200 lbf
System Breaking strength	4.000 daN / 8,800 lbf
System MSL	2.000 daN / 4,400 lbf

Truck Harness



Cordstrap® Road Transport Harness...

***Prevents tall cargo from swaying & sliding.
Eliminates resultant damage!!***

- Two opposing harnesses secure cargo against both forward and backward movement.
- Re-Usable.
- Works with standard 5 ton ratchets.
- Can be used on single and/or side by side pallets.
- Quickly adjustable for all pallet heights & widths
- Helps distribute cargo weight evenly on load-bed
- Can be used on all palletized and general cargo
- Should be used in conjunction with normal top-over straps.



COOL LOGGER



- Continuous temperature record
- Door opening detection (light sensor) in Red Model
- USB or Bluetooth manual/automatic transmission to cloud
- Alarms (temperature, light, download, battery) by mail
- Independent data bases for each user for a given ID
- Estimated life of up 2 years (depends on model and battery)

COOL LOGGER



- Free Android/iOS App
- Data download and transmission to the cloud
- Bluetooth range around 10 meters (max. 25)
- GPS position (taken from the phone when connected)
- Displays chart and basic data (screenshot can be printed/sent)
- Configurable sampling period

ETHYLENE ABSORBER

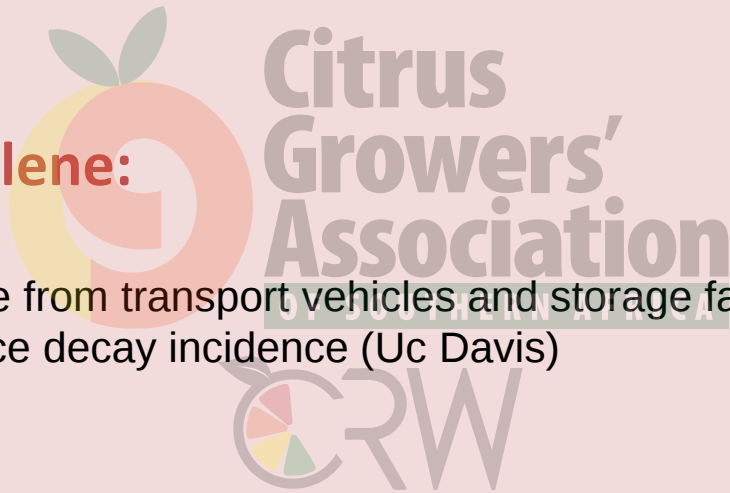


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Effects of ethylene:

Removal of ethylene from transport vehicles and storage facilities for citrus fruits can help reduce decay incidence (Uc Davis)



What does reducing ethylene mean to you?

-  Reduces waste (due to over-ripening, decay etc)
-  Prevents weight loss
-  Maintains the colour
-  Eliminates odours
-  Avoids complaints, returns/ or renegotiations with customers
-  Improves company image and products
-  Increased profitability



OZEANO consists of a mixture of clays and porous permanganate

Saturation of the granules: The active life of the granules is inversely proportional to the levels of volatiles in the air emitted for each variety of fruit. Its color changes from purple to brown (spent).

OZEANO pellets remove:

- Ethylene and other gases (acetaldehyde, ethanol)
- Odours (sulfur compounds ...)
- Microorganisms: Bacteria and fungi (Botrytis, Penicillium ...)

The granulate OZEANO is not an additive and is 100% disposable

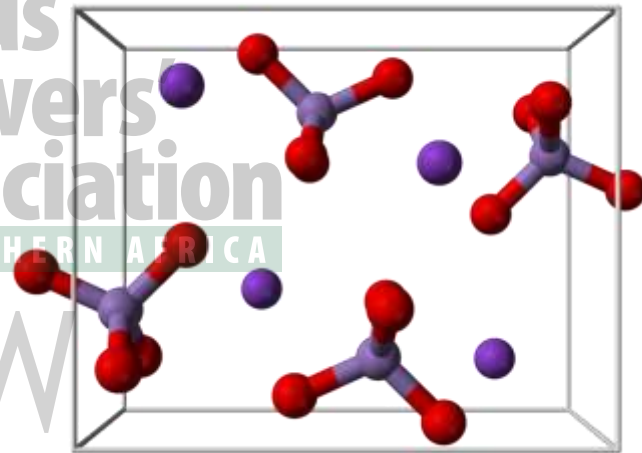
Performance

Physical absorption

Related to the large surface area of clays
Ozeano

Oxidation

Through a process of oxidation permanganate (KMnO_4) transforms ethylene and other pollutants such as SO_2 , NO_x , H_2S , and many other volatile organic compounds (VOCs) by removing its harmful effects



Performance II

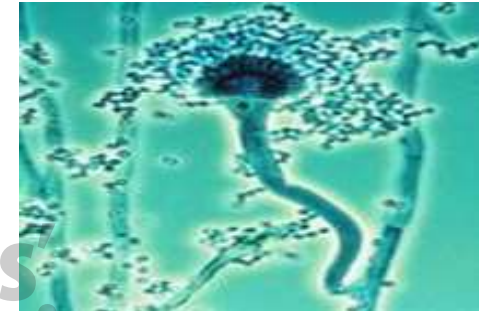
ANTI-MICROBIAL ACTION:

The permanganate is a powerful disinfectant known since the nineteenth century (Condy's Fluid):

The bacteria in contact with the filter find a pH of 9.2, higher than the limit of survival

The clays are negatively charged and attract positively charged particles on which most of the microorganisms regularly move in the air

OZEANO eliminates many of the gases used by fungi to communicate, thereby disrupting fungal development



By removing air pollutants fruit keeps its organoleptic properties during the distribution process

Our ethylene absorption filters (Ozeano L and XL Ozeano) show significant improvements compared to those existing today in the market

- The special design of the filter's rigid core, an innovative technology developed by our own, has a double effect:
 - It reduces the possibility of filter drip when exposed to a stream of water, therefore minimizing the possibility of "spotting" on fruit boxes.
 - It solves bypass problems thanks to the inner channels which make easy an optimal filling.
- Absorption capacity: > 3,5 liters C₂H₄/kg
- Faster reaction
- Are dust-free, which means that absorption capacity keeps intact during the transit.





Thank You for your time