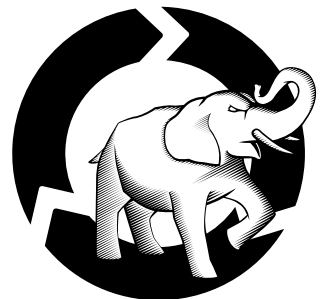


# LINER BAGS

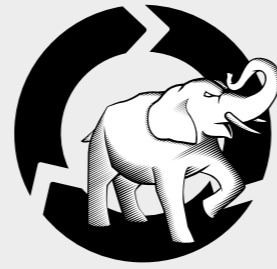
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Liner Bags  
for containers



**ECEPLAST**  
SUSTAINABLE  
PACKAGING INNOVATORS

# LINER BAGS



LINER BAGS ARE A CLEAN, SAFE AND EFFECTIVE PACKAGING SOLUTION THAT TRANSFORMS CONTAINERS INTO RELIABLE AND COST EFFECTIVE ALTERNATIVES TO TANK CONTAINERS, GRANTING THE LOWEST LOGISTICAL COSTS AND REDUCING ENVIRONMENTAL IMPACT.

- Protect goods from external agents and contaminations
- Reduce total handling costs: easy and fast to install / load / discharge / dispose
- Maximize container payload
- 100% waterproof.

## ECE ADDED VALUE

- Designed and Manufactured in Europe for over 20 years
- Internal R&D team developing new solutions and innovations
- Personalized consultancy and onsite assistance
- Total Quality and Environmental Management System (ISO 9000 - 14001)
- Food Safety Management System (ISO 22000)
- Selected raw materials from first class suppliers
- Insurance coverage
- Global distribution network granting fast response times

## FIELDS OF APPLICATION



### Food and Feed

Barley, cattle feed, cocoa, corn, fishmeal, flour, ground nuts, lentils, milk powder, mixed grain feed, nuts, peas, rice, salt, seeds, soya beans, starch, sugar, tea leaf, wheat, grain, flour.



### Chemicals

ABS resin, aluminum, fertilizers (certain), glass beads, nylon polymer chip, polyester granules, PE granules, PP granules, PVC powder, PTA powder, soda, catalysts, pigments, zinc powder, detergents, carbon black.



### Minerals

Anhydrite binder, bentonite clay, gypsum, silica, talcum powder, tri-poly phosphate, vanadium slag, aluminum fluoride, bleaching earth, titanium dioxide, zeolite, cement, lime, chalk.



### Wastes

Organic waste, residue sludge and ashes from industrial and organic processes.

## THE MOST SUSTAINABLE CHOICE

Alternative packaging solutions for 20 Tons of bulk.

N. 1  
LINER BAG



12 kg

N. 20  
FIBC  
1 TON



30 kg

N. 1.000  
FFS SACKS  
25 KG



200 kg

Set-up time



Cost



# BARLESS



**ECE Barless Liners reduce the costs and increase the safety eliminating steel bars.**

## DESIGNED TO

ECE Barless Liners eliminate the need of steel bars. Made of a special grade of multi-layer coextruded LDPE and LLDPE film, the ECE Barless Liners are reinforced with a specifically designed woven fabric raffia (Bulk Head) and secured by an innovative retention system (BSS) that contains the products while the container doors are open for loading and unloading operations. Our internal R&D has developed and tested the ECE Barless Liners in cooperation with the Polytechnic University of Bari, to offer our customers an efficient and safe system to adopt when the return logistic of the steel bars is too complicated or expensive.

## OPTIONS

- Food Grade approved raw materials (FDA - EU 10/2011) and certified production process (ISO 22000:2005)
- Conductive - Antistatic film to prevent the risk of dust explosion
- Nitrogen Barrier film available for moisture sensitive goods

- **US patent nr. 009776791B2**
- **The only PE-Film Barless Liner**
- **Eliminate the cost of steel bars**
- **Easy to install**



# ISO 20' 40'



**ECE Liners for Iso 20' 40' containers are the ideal packaging solution to safely ship free flowing dry bulk commodities.**

- **Maximize container payload**
- **Reduce loading and unloading time**
- **Reduce total logistics costs**
- **Reduce the environmental impact of the supply-chain**

#### DESIGNED TO

ECE Iso Liners are made of a special grade of multi-layer coextruded LDPE and LLDPE film. The Liner Bags are reinforced with a woven raffia fabric (Bulk Head) with loops for the steel bars, needed to contain the goods while the container doors are open during loading and unloading operations. A wide range of ECE Iso Liners is available, all fully customizable by our qualified R&D team to match every specific requirement starting from an early assessment process that evaluates the type of product to ship, the available loading and unloading equipment, the environmental conditions and the impact.

#### OPTIONS

- Food Grade approved raw materials (FDA - EU 10/2011) and certified production process (ISO 22000:2005)
- Conductive - Antistatic film to prevent the risk of dust explosion
- Nitrogen Barrier film available for moisture sensitive goods
- Available in the reusable or recyclable versions



# BULK 20' 30' 45'



**ECE Bulk Liners are widely used by the European intermodal operators.**

- **Over 200 different models**
- **Highly automated production process**
- **Prevent the risk of contamination**
- **Reduce total logistics costs**
- **Reduce the environmental impact of the supply-chain**

#### DESIGNED TO

ECE Bulk Liners are made of a special grade of multi-layer coextruded LDPE and LLDPE film. The Liner Bags are equipped with top funnels to allow gravimetric loading directly under a silo and a triangular discharge spout for the unloading operations with a rotary valve. ECE Bulk Liners can be fully customized by our qualified R&D team to match every specific requirement.

#### OPTIONS

- Food Grade approved raw materials (FDA - EU 10/2011) and certified production process (ISO 22000:2005)
- Conductive - Antistatic film to prevent the risk of dust explosion
- Nitrogen Barrier film available for moisture sensitive goods
- Available in the reusable or recyclable versions



# FLUID LINER



**ECE Fluid Liners allow to ship and easily discharge hard flowing products like Cement.**

#### DESIGNED TO

The ECE Fluid Liners, entirely developed by our R&D team, are made of a special grade of multi-layer coextruded LDPE and LLDPE film. The ECE Fluid Liners are equipped with specifically designed air funnels that, once inflated with the appropriate volume of air, allow to easily discharge hard flowing products such as **Cement, Lime, Starch, Chalk, Soda, Talc.**

The list of products is constantly updated as many tests are ongoing, involving our R&D in a continuous improvement process to certify more products to be transported with this innovative technology.

#### OPTIONS

- Available for 20' and 40' Iso sea box containers
- Available for 20', 30' and 45' bulk containers
- Conductive - Antistatic film to prevent the risk of dust explosion
- Ancillary Technical discharge equipment available

- *Easy to operate*
- *Lowers logistic cost*
- *Opens new markets*
- *Perfect for Hard flowing powders*



# OPEN TOP

#### DESIGNED TO

ECE Open Top Liners allow the safe transport of minerals and agricultural commodities, or even the disposal of wastes and residual sludge and ashes of industrial processes while keeping the container clean. ECE Open Top Liners are available for all types and sizes of Sea Box, Bulk and Roll-off containers.

#### OPTIONS

- Food Grade approved raw materials (FDA - EU 10/2011) and certified production process (ISO 22000:2005)
- Different thickness available
- Available for all sizes of containers
- Available in the reusable or recyclable versions

**ECE Open Top Liners are the perfect solution to safely transport and dispose of different type of products.**



# CARGO PROTECTOR

#### DESIGNED TO

ECE Cargo Protectors are specifically designed to protect palletized goods from moisture and water infiltrations during shipment and to avoid the dispersion of odors and leaks of waste products.

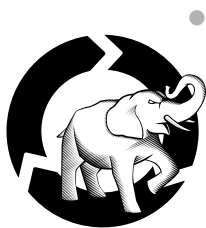
#### OPTIONS

- Food Grade approved raw materials (FDA - EU 10/2011) and certified production process (ISO 22000:2005)
- Reinforced floor for forklifts loading
- Available for all type of containers
- Easy installation and sealing
- Multiple thickness available
- Available in the reusable or recyclable versions

**ECE Cargo Protectors preserves goods while maintaining the container clean.**







**ECEPLAST**  
**SUSTAINABLE**  
PACKAGING INNOVATORS

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**ITALIAN COMPANY**  
**ESTABLISHED IN 1995**

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ISO 9001:2015  
ISO 14001:2015  
ISO 22000:2018

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