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**Beyond Waves and Clouds** / Since 1992

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**FLEXITANK SHIPMENTS**



# WHAT IS FLEXITANK?

- ▶ Flexitank is a wrapping which can be used to carry 12.000 to 26.000 litres of liquids classified as dangerous in a container. Its interior is produced from multilayer polyethylene, its exterior from polypropylene. There are two types of flexitanks: those that fill from the top and those that fill from the bottom.
- ▶ Flexitanks are usually laid out in type 20' food grade containers for sea carriage. They enable the carriage of liquids in 20DC containers.
- ▶ The laying out of Flexitanks into a container is healthier for shippers of liquid bulk Cargo and less costly than ISO tanks.
- ▶ Flexitanks are approved by the American FDA association for the carriage of liquid foods, due to its specially formulated materials.
- ▶ Each Flexitank is for single-use only and therefor constitutes a special package for the carried or stored good. It doesn't require empty recycling after use.
- ▶ It's less costly compared to tank containers, barrels and IBC's.



## ADVANTAGES OF FLEXITANK

- ▶ Its loading capacity exceeds that of Intermediate Bulk Containers (IBC). A 40' container fits a maximum of 23 IBC's (23.000 Litres)
- ▶ 44% higher loading capacity compared to barrells
- ▶ 50% higher loading capacity compared to bottles
- ▶ No cost of cleaning and extermination
- ▶ Faster filling compared to barrel and IBC
- ▶ Less loss of product at discharge, maximum filling
- ▶ Provides an advantage on costs for empty storage due to its special packaging (145x57x40) which enables folded storage



## ADVANTAGES OF FLEXITANK

- ▶ No requirement for forklift during loading and discharge
- ▶ Convenient for far destinations
- ▶ Environmentally friendly, recyclable
- ▶ No risk of contamination
- ▶ Eliminates difficulty to find tanks which arises due to the imbalance in global freight traffic
- ▶ Customer requests can be countered at scheduled times due to cost advantage of keeping available stock



# FLEXITANK – AREAS OF USAGE

## 1. **Foods**

- ▶ Olive oil
- ▶ Vegetable oil
- ▶ Fish oil
- ▶ Fruit concentrate, fruit juice
- ▶ Wine, vinegar
- ▶ Fructose



# FLEXITANK – AREAS OF USAGE

## 2. Harmless Chemicals

- ▶ MEG (Monoethylene Glycol); organic compounds which are colourless, odorless and in hygroscopical liquid state
- ▶ DEG (Diethylene Glycol); organic compounds which are colourless, odorless and in hygroscopical liquid state, used for the production of unsaturated polyester resins, poliurethane and plasticizers, glue and cosmetics
- ▶ Latex
- ▶ Minerals oils, base oils, emulsions
- ▶ Crude oils

## FLEXITANK – SET UP STAGE

- ▶ An appropriate container for Flexitank is selected (high conditions, no interior and exterior damage, no lashing, preferably no weld reparations, not older than 5 years, with 2 functional locks on each door).
- ▶ The appropriate equipment is transferred from the container field to our warehouse in Derince.
- ▶ When reaching the warehouse, the container is controlled for damage which may have occurred during transfer.
- ▶ The interior of the container is cleaned by our fully equipped team in order to prevent contact with dust, dirt or any foreign material.



- ▶ The interior of the container is covered in cardboard in the exact measurements of the Flexitank in order to minimize possible damage to Flexitank or Container during loading or carriage. The cardboard is fixed by bands. Contact between Flexitank and metal sheet is prevented.



- ▶ The Flexitank is opened within the container from back to front and laid out on the ground whilst keeping the filling valve on the right side. The container is not entered with shoes during laying out.



- ▶ The Flexitank is adjusted to the corners.
- ▶ The hose is tied with a rope in order to remain on the right side during filling.

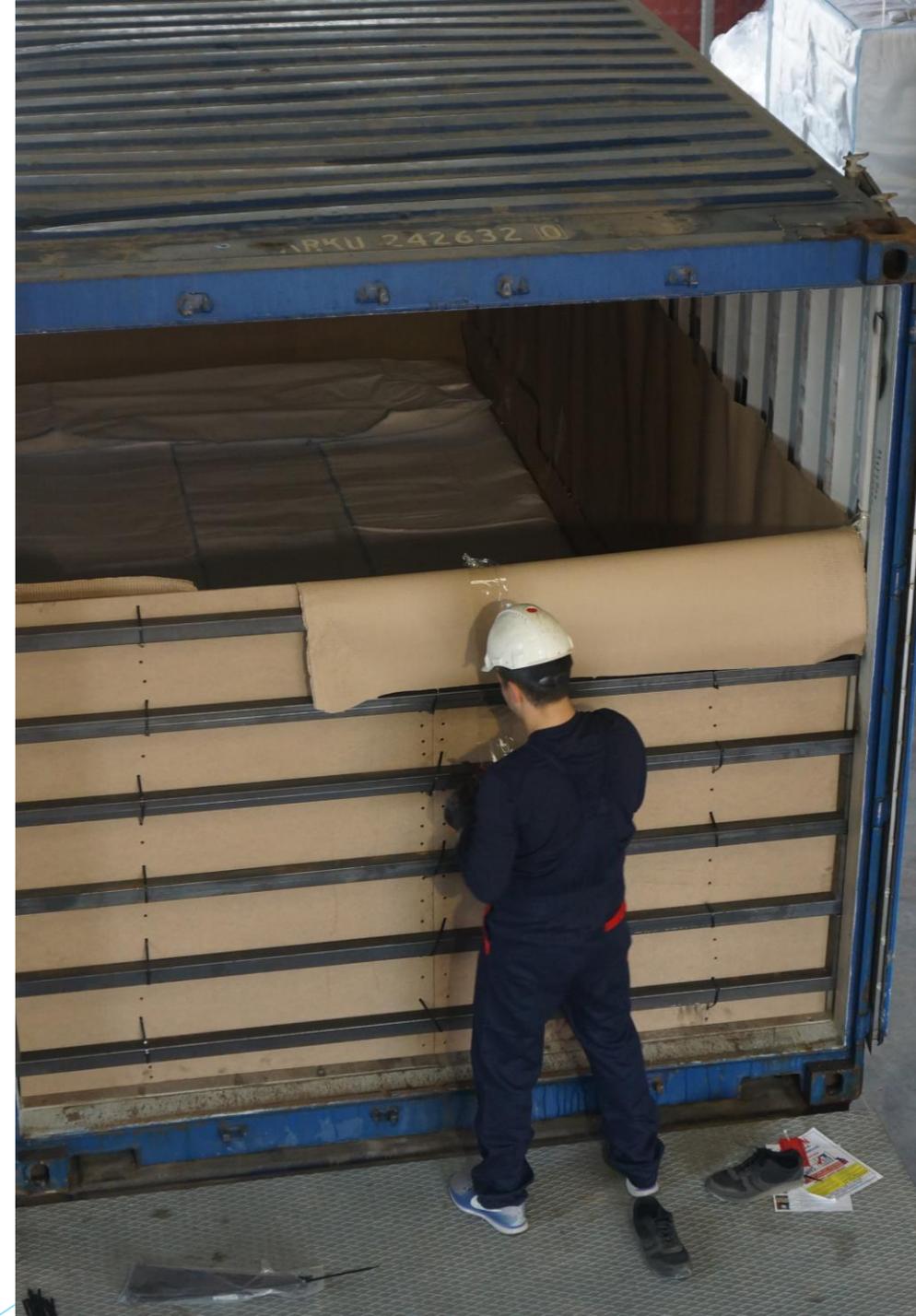


# BULKHEAD

- ▶ After laying out is completed, an appropriately sized cardboard pipe support is placed within the interior of the container and fixed in all corners.
- ▶ 6 supportive iron bars are placed horizontally, matching the capacity measure of the full Flexitank. The distance between the iron bars is kept at 20 cm in order to reduce pressure and fastened by vertical bars on the edges.



- ▶ MDF cardboard is placed between the cardboard pipes at the backside of the container and the supportive iron bars in order to prevent contact between Flexitank and iron.
- ▶ The placed MDF cardboard is fixed to the horizontal iron bars with plastic cuffs.
- ▶ It is checked whether the doors open easily without damaging the goods.



- ▶ A vertical support bar is added towards the right side of the left container door. The left door is closed. This way, pressure to the container door during carriage is reduced.



- ▶ Following this procedure, the left container door is not opened again until the Flexitank is completely discharged.
- ▶ A final check up is conducted after completion of bulk head procedures. Warning stickers are placed on the container in order to prevent the opening of the left door.



- ▶ The locks on the left door are sealed.
- ▶ The container is transported to the loading field.





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THANK YOU