

FLEXITANK

Flexible, light and collapsible packing of a new generation for transportation and storage of liquids:

- a) Transport Flexitanks – single use.**
- b) Storage Flexitanks – multiuse, long term storage.**



FLEXITANK FOR TRANSPORT AND STORAGE

Food liquids

- Certified for contact with foodstuffs – suitable for transportation of food products.
- **Aseptic Flexitank - Hygienic sterilization – bacterias free packaging on request.**
- The materials used are resistant to a broad variety of substances.

- ✓ Cider
- ✓ Wine
- ✓ Fruit juices
- ✓ Concentrates
- ✓ Mineral water
- ✓ Potable water
- ✓ Tomato juice
- ✓ Vegetable oils
- ✓ Molasses
- ✓ Palm oils
- ✓ Fish oils
- ✓ Food oils
- ✓ Glucose
- ✓ Sorbitol
- ✓ Fruit sugar
- ✓ Sweeteners
- ✓ Malt extract
- ✓ Fats
- ✓ Lard

MULTILAYER FLEXITANK FOR TRANSPORT AND STORAGE

- Non-dangerous liquids which are not listed in ADR, RID, IMDG transportation regulations.
- The materials used are resistant to a broad variety of non-dangerous substances.
- Storage design permits multiple use for storage applications.

Technical liquids

- ✓ Detergents
- ✓ Lubricating oils
- ✓ Lubricants
- ✓ Paraffine
- ✓ Waxes
- ✓ Inks
- ✓ Paints
- ✓ Emulsions
- ✓ Fertilizers
- ✓ Latex
- ✓ Softeners
- ✓ Non-dangerous chemicals
- ✓ Herbicides

MULTILAYER FLEXITANK FOR TRANSPORT AND STORAGE

Technical data

- **Standard volume:** 17 - 24 m³ for transportation
up to 50 m³ for storage
- **Width (24 m³):** 3.93 m
- **Length (24 m³):** 7.10 m
- **Average weight:** 615 g/m²
- **Total thickness:** about 0.900 mm
- **Elongation at 2000 N/5cm:** 15%
- **OTR – standard liners** 500 cm³/m²/24h (at 23°C, 0% RH)
with EVOH barrier liner 1.5 cm³/m²/24h (at 23°C, 0% RH)
- **Water permeability:** < 0.8 g/m²/24h (at 23°C, 0% RH)
- **Connection system:** quick-closing Camlock - 2" or 3"
diameter (i.e. 50 mm or 75 mm)
- **Valves:** 2" or 3" valve (DN50 or DN75)
- **Weight:** 50 kg

OTR = oxygen transition rate



MULTILAYER FLEXITANK FOR TRANSPORT AND STORAGE

Certificates

a) Tested according to COA (Container Owner's Association) – Rail impact test.

Flexitank Code of Practice: Version 3, part 2 dated 1.09.2011.

b) Hygienic safety of the product

- PP fabric for FLEXITANK
- PE liners for FLEXITANK
- The Regulation (EC) No.1935/2004 of the European Parliament and of the European Council, on materials intended for contact with foodstuffs.
- The Law No. 258/2000 Coll. on public health protection, the regulation Commission No.10/2011, on materials intended for contact with foodstuffs.

1. MULTILAYER FLEXITANK FOR TRANSPORT APPLICATIONS

Multimodal transportation – road, sea, railway.



1a) ROAD TRANSPORTATION – transportation in 20' container



Filling process



Bulkhead installation – bottom valve

1a) ROAD TRANSPORTATION in 20' container

Top charge



Note: filling of chemicals

Bottom charge



Note: filling of wine

1a) ROAD TRANSPORTATION – filled FLEXITANK 24 m³



1b) RAILWAY TRANSPORTATION in 20' container

Process of filling



Filled FLEXITANK on a wagon



1c) SEA TRANSPORTATION – Rough use/filling of FLEXITANKS on open sea



20' containers installed on boat



1c) SEA TRANSPORTATION in 20' container

Process of filling on open sea



Partly filled FLEXITANK

Absorption of heavy liquid movements during process of filling = Dynamic stresses absorption. No damage and leaks.

Normally forbidden way of filling.



HEATING SYSTEM FOR FLEXITANKS – allows heating of liquid

- Hot Steam source needed
- Installed on a container floor
- Used for liquids with a higher temperature melting point (palm oils etc.)



BORNIT DESIGN OF FLEXITANKS – basic ADVANTAGES

- **Extreme ability to absorb dynamic and static stresses due to movements of liquids.**
- **High compatibility and resistance to different chemicals**
- **General safety and quality of all components. Temperature resistance up to 70° C.**
- **Aseptic Flexitank on request – free of bacterias.**
- **Quality of welding and sewing process.**
- **Short lead times.**
- **Service and assistance provided.**
- **Customized solutions and innovations.**

2. FLEXITANK FOR STORAGE APPLICATIONS

FLEXITANK FOR STORAGE



Agriculture

ANIMAL WATERING
cattle, sheep, horses

STORAGE
liquid fertilizers, molasses

PLANT WATERING
vegetables, vineyards

FLEXITANK FOR STORAGE APPLICATIONS

FLEXITANK for storage of liquid fertilisers

FLEXITANK is delivered with external Safety bag

Filter of gross particles:

- Traps gross dirt from tank cars during filling process
- Quick control of quality of fertiliser



FLEXITANK FOR STORAGE APPLICATIONS

FLEXITANK for storage of liquid fertilisers

Open-air storage:

- Flat surface without sharp objects
- Flexibility for fertiliser use
- Storage close to the fertiliser application



FLEXITANK FOR STORAGE APPLICATIONS

FLEXITANK for storage of liquid fertilisers

Indoor storage:

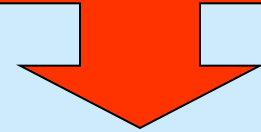
- Safe against damage from third side
- Use of existing storage places
- Improved protection against weather conditions



FLEXITANK FOR STORAGE



**State
administration**



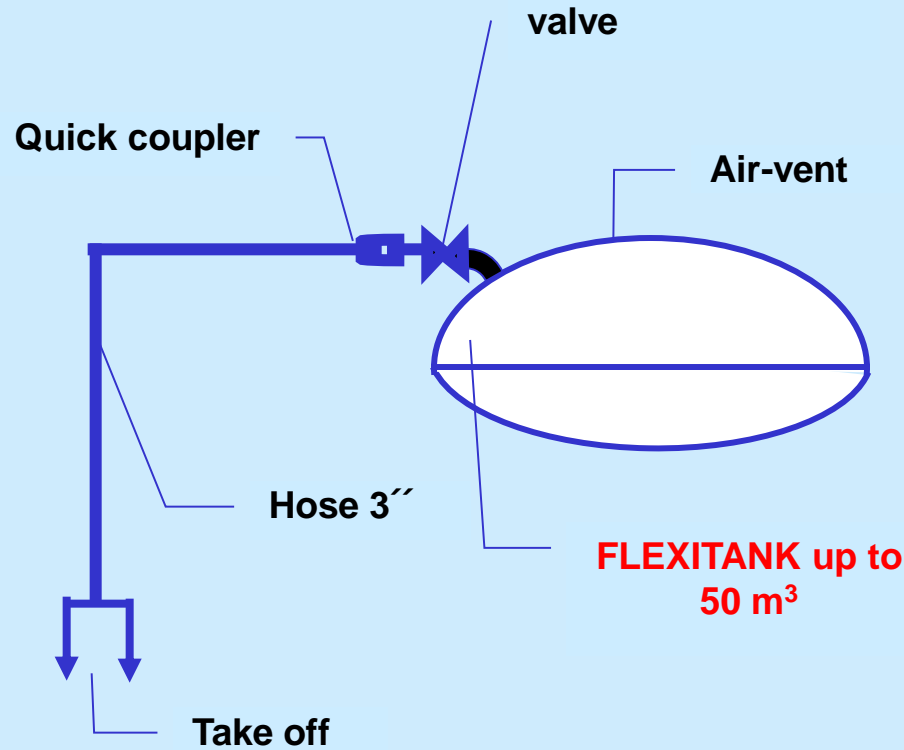
EMERGENCIES

**distribution of
potable water**

water tanks

pumping off

FLEXITANK FOR STORAGE



Use for

storage

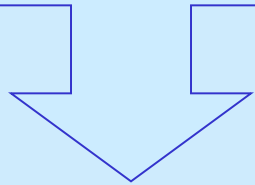
watering

pumping off

FLEXITANK – LONG TERM OUTSIDE STORAGE



**Weather
resistance**



**outdoors
28 Feb 2010
at -12°C**

FLEXITANK for Storage and Transportation

Easy handling and positioning



Installation and packing



Thank you very much for your attention.

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