SIA
FLEXITANKS LTD

www.siaflexitanks.com

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INTRODUCING SIA FLEXITANKS

Introducing SIA Flexitanks, and our services for the provision of high quality Flexitanks.

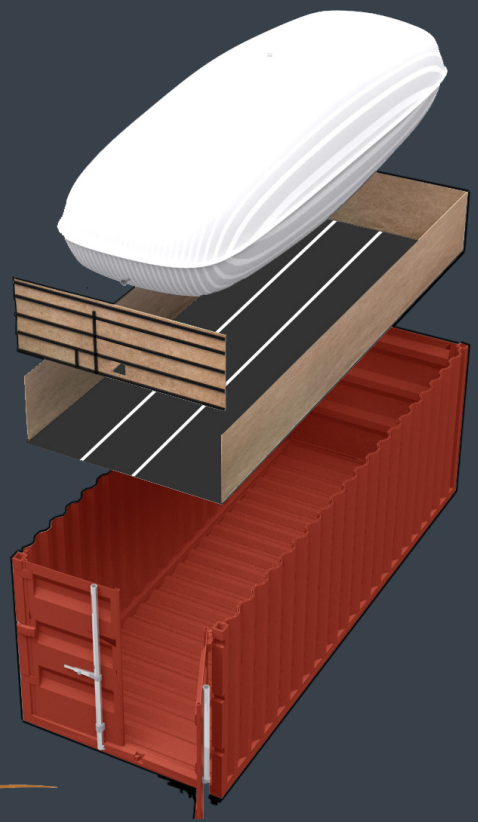
SIA Flexitanks manufacture, sell and operate fl exitanks. SIA's focus is to offer a high level of customized Logistics products to clients currently shipping their products around the world. Our client base is blue-chip chemical and food manufacturing companies, each of which requires the use of an international specialist bulk liquid service provider, which is able to deliver their product in a safe, effi cient and environmentally friendly manner.

If your organization is seeking safe, world class performance from a global logistics provider, SIA Flexitanks has the solution, international infrastructure and experience to deliver maximum customer value.

FLEXITANK CODE OF PRACTICE

- Stringent Container Selection criteria
- The fl exitank design shall comply with the Flexitank Test Criteria
- Cargo and Flexitank must be fully compatible
- Flexitank and Bulkhead must depict a unique serial number, manufacturers name and COA reference number
- Door warning label should be supplied
- Insurance cover of not less than US$5 million
- There must be emergency plans in place
- Manuals for fl exitank fi tting, loading and discharge compliance
- Strict compliance with tank capacities and loading tolerances
- Certifi ed to ISO 9000
- MSDS must be provided to Flexitankoperator
- COA test number must be supplied to shipping lines

FLEXITANK INSTALLATION



PERFORMANCE TESTING

COA | CONTAINER OWNERS ASSOCIATION

ITCI

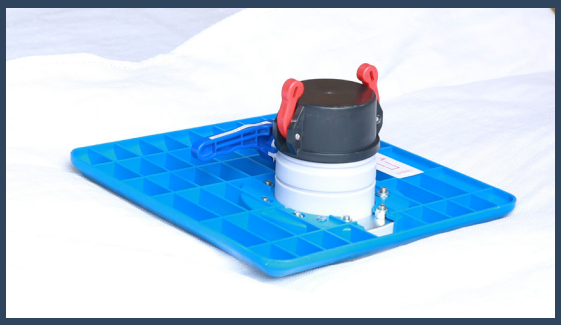
INTRODUCING....THE GLOBAL TANK

To achieve such robust performance, the GLOBAL TANK consists of one piece thermoplastic construction. We utilise a low density, multiple polyethylene that provides high tensile strength and stretch, energy absorption and resistance to abrasion and puncture.

Our outer woven polypropylene layer offers unique one piece construction which eliminates longitudinal seams, adds strength and reduces manufacturing cost and defects.

The GLOBAL TANK tolerates a wide range of temperatures and chemicals, and is virtually impermeable to oxygen and vapour. It resists failure even when quality is tested under the harshest dynamic conditins.

Our high-tech approach to fl exitank design and production ensures optimum containment and safety.



SIA Unique Valve Backing Plate. For security and peace of mind

"Seamless construction for seamless performance. The tank insulates well, is resistant against aggressive substances and damage, it is virtually unbreakable and is environmentally friendly."

SIA HAVE TAKEN CHARGE OF DESIGN AND MANUFACTURING

Current SIA Flexitank design has eradicated residue issues.

Fabric Weight	220gsm
Total Weight	740gsm
Tensile Strength, Weft:	250 Kg/5cm
Tensile Strength, Warp:	250 Kg/5cm
Tear strength: Warp	110 N
Tear strength: Weft	90 N
Low Temperature Flexibility	-20 °C/-4 °F
High Temperature Flexibility	70 °C/158 °F
Dart Impact (ASTM D1709)	>1260g
Melt point Index	0.8
Elongation MD (ASTM D882)	745%
Elongation MD (ASTM D882)	750%

TYPICAL FLEXITANK APPLICATIONS

FOOD GRADE LIQUIDS

- Wine
- Fruit Juices
- Concentrates
- Mineral Water
- Potable Water
- Vegetable Oils
- Palm Oils
- Coconut Oils
- Fish Oils
- Edible Oils
- Glucose
- Sorbitol
- Fructose
- Corn Syrup
- Malt Extracts
- Tallow
- Tomato Paste

NON-FOOD LIQUIDS

- Detergents
- Base Oils
- Lube Oils
- Lubricants
- Paraffi n wax
- Waxes
- Printing Inks
- Paints
- Emulsions
- Glycerine
- Fertilizers
- Natural Latex
- Synthetic Latex
- Plasticisers
- Non-Hazardous
- Chemicals
- Herbicides
- Crude Oils

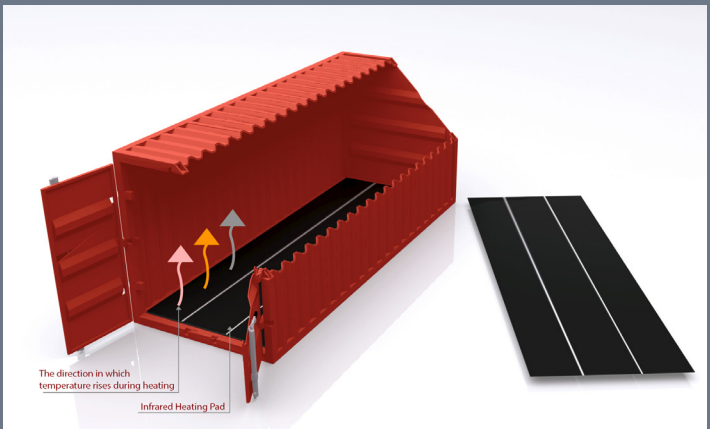
To find out if your product can be transported using a flexitank, Please email our team at info@siaflexitanks.com

FLEXITANKS FOR WINE

- More consistent wine temperature in transit-reduced fl uctuation can improve shelf life
- Oxygen and VOC Protection
- Oxygen Migration
- OTR rating < 0.05 cc / m² / day @ 23°C 50RH
- Equates to < 0.01 mg DO / litre over 45 day transit
- Independent reports on exposure tests & analysis results available

HEATER PADS
The Revolutionary EnviroHeater

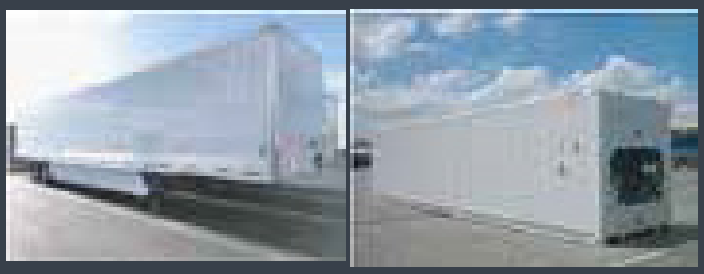
The Heating System the Flexitank Industry has been waiting for.
This introduction is intended to compare the efficiency of our new heating system against conventional steam and hot water heating pads used in the Flexitank Industry today. Utilising multiple and efficient heating circuits the EnviroHeater combines the latest electrical engineering design to facilitate quick and safe unloading.



- At least 50% more efficient than steam heating
- Reaches desired heat setting (up to 130 °C) in under 2 minutes
- 270 Heat channels delivered consistently throughout the Flexitank. (Standard heater pads have 8 or 16 heat channels)
- Uniform and consistent temperature throughout the system
- Can be inserted inside layers of the flexitank
- Easy to install
- Indestructible and highly Durable construction
- Ergonomic packaging reduces freight costs
- Can be regulated to any desired temperature, depending on the characteristics of the product
- No Cold spots
- Reduces heating time by a minimum of 50%, no waiting time at third party depots
- No Steam required
- 110, 220 or 380 V (3 Phase) options
- Reduces energy consumption
- Reduces demurrage
- Multiple heating circuits Maximizes heated area

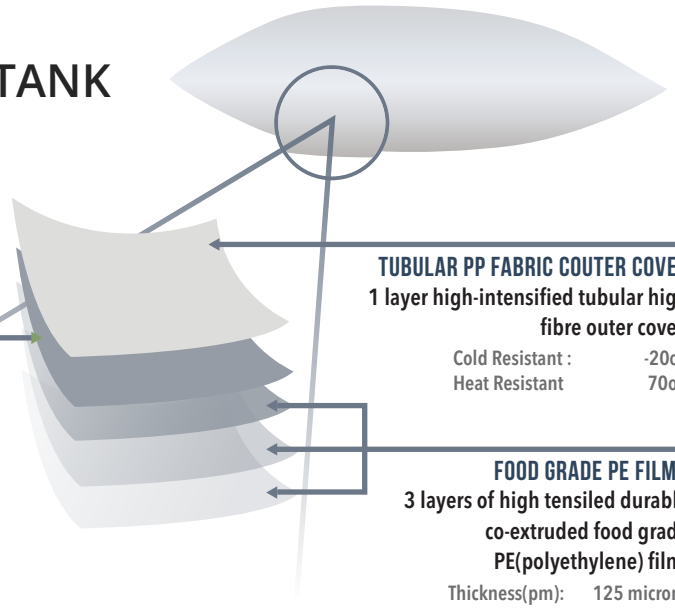
The SIA Global Flexi-Max

A new era in Bulk Liquid Transportation.
Provides shippers with the ultimate Flexible solution. Maximise your payload and Maximise your profits.



- Designed for easy installation with no bulkhead.
- Save freight utilizing 53' dry vans/reefers.
- Less packaging costs and labour.
- Available in sizes ranging from 12,000 up to 28,000 litres.
- Featuring 3 surge reducing individual chambers interlinked by proprietary injection moulded technology.
- User-friendly design with one convenient load and discharge point.
- No Bulkheads required.
- Disposable, new flexitank every time, no contamination.
- Ergonomic design eliminates sidewall pressure.
- Eco-friendly and fully recyclable, less carbon footprint.
- The Global Flexi-Max has passed the COA Flexitank/container combination Standard Rail Impact Test Loading range: 12,000 to 28,000 litres.
- 3" fully bore ball valve.
- Temperature range: -50 to +70

ALUMINIUM FLEXITANK CONSTRUCTION



TUBULAR PP FABRIC COUTER COVER
1 layer high-intensified tubular high fibre outer cover.

Cold Resistant :	-20oC
Heat Resistant	70oC

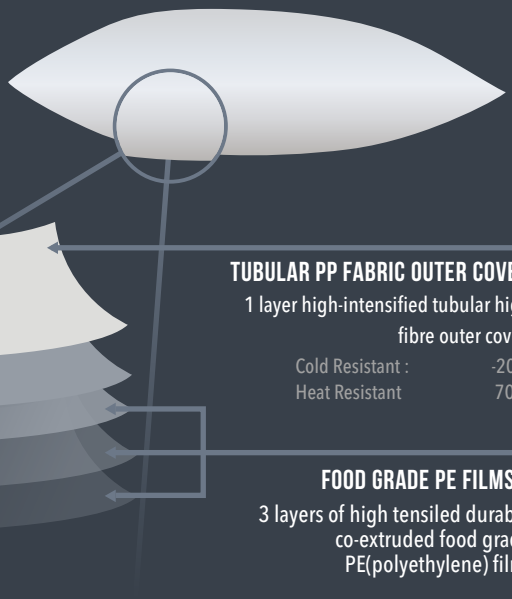
ALUMINIUM BARRIER
- 1 layer of Aluminium barrier
- Excellent gas barreier
- Flavour and aroma barrier
- Protecting quality and value
- providing insulation

FOOD GRADE PE FILMS
3 layers of high tensiled durable co-extruded food grade PE(polyethylene) film.

Thickness(pm):	125 microns
Cold Resistant:	-20oC
Heat Resistment	70oC

ALUMINIUM FLEXITANK

EVOH flexitank construction



TUBULAR PP FABRIC OUTER COVER
1 layer high-intensified tubular high fibre outer cover.

Cold Resistant :	-20°C
Heat Resistant	70°C

EVOH (ETHYLENE VINY ALCOHOL COPOLYMER)
- 1 layers of EVOH
- Excellent gas barrier
- Flavour and aroma barrier
- protecting quality and value

FOOD GRADE PE FILMS
3 layers of high tensiled durable co-extruded food grade PE(polyethylene) film.

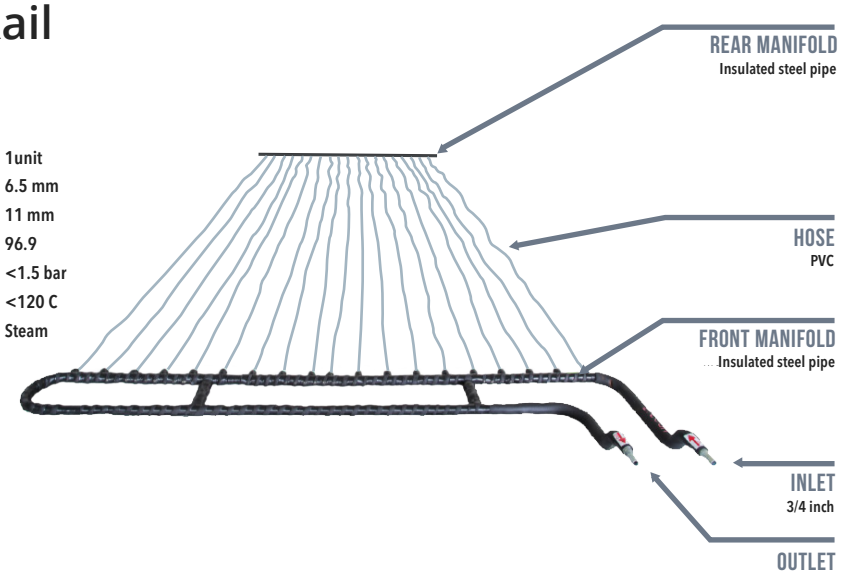
Thickness(pm):	125 microns
Cold Resistant:	-20oC
Heat Resistment	70oC

EVOH FLEXITANK

Heating Rail

SPECIFECATION

Inlet and Outlet:	1unit
Inner Dimension:	6.5 mm
Outlet Dimension:	11 mm
Hose Lenght:	96.9
Working Pressure:	<1.5 bar
Temperature Range:	<120 C
HEAT Source :	Steam



REAR MANIFOLD
Insulated steel pipe

HOSE
PVC

FRONT MANIFOLD
Insulated steel pipe

INLET
3/4 inch

OUTLET
3/4 inch

HEATING RAIL

WITH YOU EVERY STEP OF THE WAY

From supply of the Flexitank

To installation

To trucking

To technical support

To shipping

To disposal or recycling

BENEFITS

- Reduce Carbon Footprint
- Reduce packaging
- Respond to market requirements
- Satisfy customer's requirements
- Benefi ts of Destination fi lling

Flexitanks have 15% more payload then IBC's, 40% more than drums. More economical than ISO Tanks on deep sea shipments. Reduced storage costs when compared with Bulk Tankers.

EMERGENCY RESPONSE

SIA Flexitanks provides uniformly competent assistance on a global basis through a Worldwide Flexitank Agency network and a Global response team. Saving money, time and cargo being our main objective
Our emergency response plan provides the framework for the actions to take in the event of a major incident or unintentional release of your liquid cargo.

- Remote information and general advice by telephone, email or fax.

- Presence of an expert who will provide advice after having carried out an assessment or inspection.

- Speedy delivery of equipment and personnel to the
scene of an incident.

REDUCE YOUR CARBON FOOTPRINT

One 24 000 litre fl exitank generates an average 70 kilos of recycling packaging waste.
2.4 x 20 foot containers will generate 15,840 kilos of
imported glass.

- Over 600,000,000 Litres (25,000 containers) of wine is transported each year in fl exitanks.
- Reduce Packaging.
- Reduce Transport.
- Reduce CO2 & NOX.

SIA fl exitanks represent the following CO2 and NOx savings over other systems as follows -

- 59% CO2 and 58.8% NOx and SO2 over Cased Goods shipments.

- 30% CO2 and 29% NOx and SO2 over drums and IBCs.

- 1 x 24 000 litre fl exitank = 2.4 x 20 foot containers assuming 1100 x 9 litre cases per TEU.

SIA WORLDWIDE LOCATIONS

OFFICES

• Brazil • China • Indonesia • Ireland • Italy • Malaysia • Phillipines • The Netherlands • USA

AGENTS

• Argentina • Australia • Belgium • Chile • Canada • Denmark • Egypt • France • Germany • Greece • Italy • India • Japan • Latvia • Saudi Arabia • South Africa • South Korea • Spain • Turkey • UAE • Vietnam

SIA Flexitanks, the Global Company, delivering the world to you.

Other Offices:

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