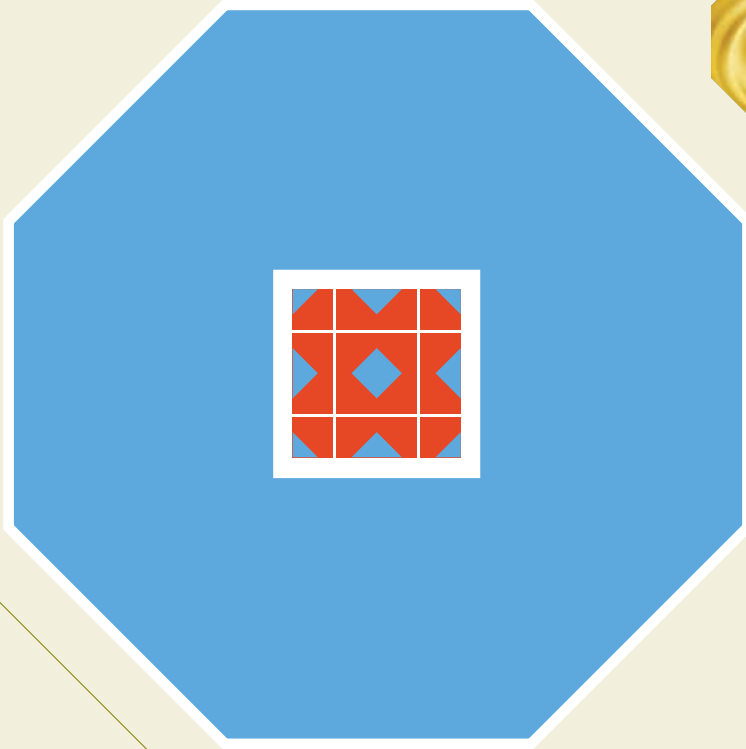


Environmental Packaging Technologies



BIG Red Flexitank™

The best packaging solution for
your bulk liquid cargo.



The Shape of Safer Shipping

Environmental Packaging Technologies, Ltd. (EPT) has developed a state-of-the-art flexitank system that satisfies the logistics needs of our customers, maintains the integrity of the container and is better able to withstand the demands of shipment by road, rail or sea.

As the technology leaders in the industry, EPT offers a global solution to the packaging and transportation of bulk liquids that is safe, economical and environmental.

The BIG Red Difference

- Made in the U.S.A. to ISO 9001:2000 standards
- Superior flexitank design, engineering and manufacturing
- Only flexitank to pass both the Association of American Railroads (AAR) Impact Test and the AAR Simulation Test
- Only flexitank to have completed Rail Terminal Handling Procedures
- Approved by Class I Railroads of North America
- Meets all Container Owners Association (COA) Recommended Code of Practice requirements
- Covered by \$20 million in product liability insurance
- Global Logistics
- Dedicated to being a landfill-free company
- Documented EPT Recycle Service Plan to help customers reclaim and recycle

"EPT is committed to bringing our customers the most technically advanced, highest quality, most thoroughly tested bulk packaging products in the industry."

**Nancy Wendrock,
President of EPT**





BIG Red Innovation

EPT has the only flexitank with Strength Bands woven into the outer polypropylene sleeve for added reinforcement. We offer the only outer sleeve made with a Seamless Construction for greater strength, durability and protection.

Film

- 2-ply of 14 mil proprietary PE films suitable for food-grade, chemical and pharmaceutical products. Optional EVOH/PE film available.
- Offers oxygen permeation rates of:
PE 14cc/100sqin/day Max
EVOH 0.027cc/100sqin/day Max

Valve

- Patented compression fitted flange and valve made of FDA approved composite material for greater product compatibility
- True 3" valve for increased loading and unloading rates

Barrier Wear Sleeve

- Multi-layer sleeve is extremely durable and protects flexitank against poor container conditions
- Proprietary films provide barrier to chemical and odor migration
- Gas transmission rate = zero



Our BIG Red Flexitank™ is in a league of its own and designed for performance, safety, and durability. Our unique engineering controls liquid motion and contains side-wall deflection.

– Available in a variety of sizes up to 24,000 liters with bottom or top/bottom valves

Whether your concerns are oxygen permeation, odor migration, contamination, compatibility, or other issues – our flexitank experts can help specify the correct combination of proprietary barriers to safely package your products. Our goal is to help lower total supply chain costs while providing the best customized packaging solutions for your products.

Tensile Strength	ASTM D-882	PE 68 (lb/in)
		EVOH 35 (lb/in)
Peak Elongation MD	ASTM D-882	PE 1000%
		EVOH 655%
Puncture Resistance(lbs)	ASTM D-3420	PE 4000 (dart)
		EVOH 1500 (dart)
Oxygen Permeation	ASTM D-3985	PE 14cc/100sqin/day Max
		EVOH 0.027cc/100sqin/day Max
Moisture Transfer perms	ASTM F-1249	PE 0.03
		EVOH 0.05
Effective Temperature Range		167°F to -23°F or 75°C to -5°C

Product must not be allowed to freeze while inside the flexitank. Please consult EPT Technical Department for extended low temperature exposures.

BIG Red Engineering

EPT has designed two patented bulkhead systems totally unique to our industry. BIG Red Flexitank customers can ship their liquid cargo with confidence that it will arrive safely at its destination.



BIG Red Swept-bar Bulkhead™

BIG Red Swept-bar Bulkhead™

- Designed to meet the high performance demands and safety regulations of railroad authorities worldwide
- Easy to install with minimal assembly time
- Protects the valve from container door
- Patent pending Impact Energy Management System offers shock absorption technology
- Protects the container and protects your cargo

BIG Red Surge Wing™

- Patented and designed to protect and secure the flexitank
- Prevents bulkhead roll-over
- Controls liquid dynamics

BIG Red Rigid Bulkhead™

- Designed to meet the high performance demands and safety regulations of railroad authorities in dedicated traffic flows of 20 or 40 foot containers
- Rigid, reusable and returnable
- Installs in less than 5 minutes, no tools required
- Patent pending Impact Energy Management System offers shock absorption technology
- Protects the container and protects your cargo



BIG Red Rigid Bulkhead™

BIG Red Straight-bar Bulkhead™

- Perfect for road and sea transportation
- Easy to install with minimal assembly time
- Rugged, single-use bulkhead

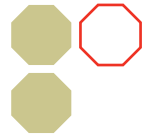


BIG Red Straight-bar Bulkhead™

A freight train can move a ton of single gallon of fuel - 4x as far a

Made in the U.S.A.

BIG Red Testing



EPT is dedicated to providing packaging that meets the highest safety standards while providing our customers an economical and environmental means of shipping their bulk liquid products. The development of our rail approved Swept-bar Bulkhead allows our customers to take advantage of the 'greenest,' most fuel-efficient form of ground transportation...rail.



Association of American Railroads (AAR) Rail Impact Test - Passed

The purpose of this test is to ensure that a loaded flexitank can withstand the force of multiple impacts routinely endured during the handling and transportation via rail.



AAR Rail Simulation Test - Passed

This two-day test consists of a series of impact tests and vibration tests simulating over 260 miles of travel over all classes of rail at accompanying speeds.



Rail Terminal Handling Procedures - Passed

EPT conducted a series of terminal handling maneuvers in order to measure and observe the effect of liquid dynamics and G-force upon the container and rail equipment.

View our test videos and complete list of certifications at www.eptpac.com

"We have dedicated considerable resources to elevating our flexitank to a new performance level, but the proof is in our rail testing."

Nancy Wendrock,
President of EPT

EPT's BIG Red Flexitank is now approved on several Class I North American railroads. Our global logistics team can assist you in determining the most efficient and cost-effective way to ship your products.

EPT actively promotes environmental awareness and has designed products that allow customers to eliminate landfill dependency by reducing and recycling residual waste. Our Recycle Service Plan consists of reclaiming or recycling all parts of our BIG Red Flexitank and our logistics team can develop a plan specific to your needs.

freight an average of 436 miles on a s it could move by truck¹

If only 10% of freight currently moved by highway switched to rail, national fuel savings would exceed one billion gallons of fuel a year and greenhouse gas emissions would fall by 12 million tons¹

Reclaim
Reduce
Recycle

¹Association of American Railroads

BIG Red Flexitanks™ vs. other packaging options:

- Less labor costs in handling and loading
- More economical than ISO tanks, metal drums and totes (IBCs)
- Higher payloads possible with flexitank's lower tare weight, resulting in lower freight costs and reduced packaging waste
- Eliminates need for return loads
- 20ft container payload is 15% more than IBCs
- 20ft container payload is 44% more than 55 gal. drums
- Recyclable and reclaimable



Reclaim
Reduce
Recycle

Commitment to our customers

- Provide the highest quality and safest bulk packaging products available
- Total global logistics solutions and support services
- Outstanding customer service
- Free training at our Product Research and Development Center in Houston, TX
- Training and certification of loading/unloading process at customer locations worldwide
- Immediate Emergency Response to any location worldwide within 48 hours
- Assistance in proper disposal and recycling

The Shape of Safer Shipping

BIG Red Packaging™ Solutions:

BIG Red Flexitank™
BIG Red Dry Liner™
BIG Red IBC™

Who we serve:

Food & Beverage Ingredients
Wine & Juice Concentrates
Specialty Chemicals
Surfactants
Biodiesel
Glycerin
Lubricants & Base Oils
Edible Oils
Tallow & Grease
Pharmaceuticals
Emulsions
Printing Inks
Latex



BIG Red Flexitank™, BIG Red Swept-bar Bulkhead™, BIG Red Rigid Bulkhead™, BIG Red Straight-bar Bulkhead™, BIG Red Dry Liner™, BIG Red IBC™, BIG Red Packaging™ are registered trademarks of Environmental Packaging Technologies Ltd.

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