



PACKAGING SUCCESS TOGETHER™

Your flexible packaging partner

We are the world leader in Flexible Industrial Packaging. The business is a joint venture between Greif, the global leader in industrial packaging and the Dabbagh Group. Greif Flexible Products & Services provides FIBCs, container liners, and other flexible packaging for chemicals, foods, pharmaceuticals, agriculture, and many other sectors.

For over a century, the world's most important products have traveled safely around the world in Greif industrial packaging. We are committed to being your productivity partner by bringing efficiency to your supply chain through a comprehensive and innovative product portfolio. An extensive and integrated global manufacturing and distribution network provides technical expertise and local customer service.









Production Locations



Consultancy Research and development

✓ Local stock keeping

Services provided

- ✓ Just in time deliveries
- ✓ Global services
- ✓ Reconditioning



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GREIF

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Standard FIBCs

Safe packaging solutions for semi-bulk applications

Our extensive range of 4-Loop FIBCs serves a wide variety of dry bulk handling applications, providing you with safe and sturdy semi-bulk packaging solutions. Whether you are handling powder, granular, or flake products, Greif 4-Loop FIBCs provide product containment and protect against hazards such as moisture and electrostatics.

Industries:









Loop design

Lifting Loops are critically important to ensure the correct filling, handling and discharging of FIBCs. Greif will advise you to make the right choice.

Corner Loop

Tailored and sized to suit your specific requirement. Optimize efficiency. Suitable for most handling applications.

Cross-Corner Loop

The classic design for Circular Woven FIBCs without corner seam. Promotes guick handling and container shipping optimization.

Flat woven fabric

Excellent choice for a variety of products. It is a very popular design for dense products.

Circular woven fabric

Ideal option for fine materials. Its construction eliminates side seams resulting in improved sift and moisture protection.

High variety of standard fabric colors and thicknesses is available. Tailored options are possible for your specific requirements.

Safety Factor (SF) according to ISO 21898:2004

Single Trip

FIBCs that are designed and intended for a single fill / use. They can be handled multiple times but not re-filled or re-used. Single trip FIBCs are tested to a 5:1 safety factor.

Multi Trip (Standard duty reusable)

FIBCs that are designed and intended to be used for a limited number of trips. It is critical that all used FIBCs are re-inspected prior to re-filling to ensure that no damage has occurred during use. These FIBCs cannot be structurally repaired. The replacement of a removable inner liner is allowed. Multi trip FIBCs are tested to a 6:1 safety factor.

UN Dangerous Goods

FIBCs that are designed to ensure the safe transportation of UN classified hazardous materials (see pages 16-17).

Safe Working Load

FIBCs can be designed to safely carry loads ranging from 250 to 3000 kg.

All our FIBCs are UV stabilized.

Measurements and Volumes

4-Loop FIBCs can be designed and produced in different sizes and configurations to meet your specific customer needs. Standard FIBCs with a square bottom become circular in shape after filling.

Measurements and Volume				
Footprint (mm):	760	870	910	960
Volume (Lt):	Height	(mm):		
400	650	-	-	-
500	800	600	550	500
600	950	700	640	580
700	1100	800	730	660
800	1250	900	820	740
900	1400	1100	910	820
1000	1550	1200	1000	900
1100	1700	1300	1090	980
1200	1850	1400	1180	1060
1300	-	1450	1270	1140
1400	-	1500	1360	1220
1500	-	1600	1450	1300
1600	-	1700	1540	1380
1700	-	1800	1630	1460
1800	-	1900	1720	1540
1900	-	2000	1810	1620
2000	-	-	1900	1700
Filled Diameter	970	1120	1160	1220

Formstable FIBCs

Stability and optimal utilization of space

The unique but simple FIBC construction helps to prevent deformation of the bag and ensures that the FIBC retains its square or rectangular shape during transportation and storage. There are a number of significant benefits to using this design of package, including:

- Optimized transport loading
- Improved space utilization during warehouse storage
- Enhanced stability during stacking, transportation and handling, thereby enhancing the safety within the immediate environment of the FIBC
- Lower freight costs, less pallets, and fewer FIBCs

The Inner-circle construction prevents the side panels from excessive expansion

100 x 120 cm



Standard Baffle Woven polypropylene panels with strategically located windows to allow the free flow of product during the fill and discharge.



Net Baffle The Net Baffle format, consists of

a continuous polypropylene yarn. This design allows an increased flow of product.



Extruded Net Baffle* The extruded net format, promotes increased flow of product and can be incorporated into an inner liner.



30% more volume

Transportation Optimization

Formstable FIBCs are produced for various pallet sizes

Most utilized pallet sizes:







114 x 114 cm



80 x 120 cm

EURO



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Formstable FIBCs truck and container loading



44 FIBCs 115 x 115 x 110 cm **52 FIBCs** 100 x 120 x 110 cm **68 FIBCs** 80 x 120 x 110 cm



20 FIBCs 115 x 115 x 105 cm 20 FIBCs 100 x 120 x 105 cm



40 FIBCs 115 x 115 x 105 cm 42 FIBCs 100 x 120 x 105 cm

Optimized transport loading with up to 30% more volume for your product. Can be packed in an ISO container or truck to avoid valuable lost load space.



Filling and Discharging

Filling options





Discharging options



Flat Bottom

Emptying by star cut of the base



Discharge Spout with Star Closure

To avoid bulging of the discharge spout



Discharge Spout

For standard discharging applications



Double Discharge Spout

For dust free discharging



Discharge Spout with Iris Closure

Additional protection of the discharge spout



For products which may bridge or cake

Additional full base protection



Total opening of the bottom

Closures & Accessories

FIBC spouts can be closed with a variety of folding methods and closure materials







With b-lock

With Velcro band



Remote discharge spout release



Stitching

Greif offers an extensive range of seam types to ensure best compatibility with your product application



Overlock with safety stitch Compatible with most FIBC types; combines high strength, adaptability and durability



Double chain stitch Twin-Needle alternative: utilized in specific FIBC design types & manufacturing processes.



Single needle overlock stitch Simple Seam format where inner safety stitch is not required.



Single Needle Lock Stitch Utilized for FIBC accessories on the body of the bag.



Single Needle Chain Utilized for dustproof seams, circular spouts and top seam.

Dustproof options

Product containment is a critical requirement during FIBC handling





•••



Circular dust proof cord



Flat dust proof tape



Felt to be wrapped around seam



Single Dustproof Dust proof material inserted to seam.



Double Dustproof Dust proof material stitched to both outer surfaces.



Triple Dustproof Dust proof material stitched to both outer surfaces and into the seam.



Double Felt -**Double Dustproof**

Dust proof material stitched to both outer surfaces, with wrap around felt.

FIBCs with Liners

Greif provides FIBCs with customized Inner Liners to enable additional containment of products

Should your product application require electrostatic protection, Greif provides a complete portfolio of liner materials. Whether you are using Type B, C or D FIBC we have a liner to match.



Contain product/ guard integrity

Control aromas inside out/outside in

iii.

Enhance outer

package

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Protect from moisture/keep dry



Control & prevent air & gas migration



Protect from oxygen/ increase shelf life



0 Protect from leakage for liquids & semi solids



LDPE based liners

- Low oxygen/Medium moisture barrier
- Food or specialty chemicals
- Can be used as inner liner or outer hygienic cover to protect the FIBC from external contaminants

EVOH based liners

- High barrier function, prolonging the shelf life of your product
- Milk powder, nutritional products, infant formula

Aluminium based liners

- Superior barrier function, maximum oxygen and moisture protection
- Most suited for hygroscopic products and aroma control

Antistatic Liners

Suitable for Type B,C and D FIBCs.

- Temporary antistatic achieved by using an antistatic additive migrating by nature. Limited shelf life, and not recommended for sensitive food applications
- Permanent antistatic achieved by using a permanent antistatic additive, non-migrating nature. Preferred solution for food applications

Conductive liners

Suitable for Type C FIBCs, safely removes the electrostatic charge through grounding the FIBCs



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into FIBCs with LDPE and other co-extruded and laminated inner liners. PP-LDPE Copolymer inner liners are suitable for a filling temperature of up to 100°C.

FIBCs with square or rectangular shaped Formstable Inner Liner provide the best utilization of space, storage and transportation. Designed to reduce transportation costs, this solution is ideal for high shelf systems and automated warehouses.







FIBCs with Liners for Food and Pharmaceutical applications

Securing your most sensitive products

Whether you are packaging baby formula or pharmaceutical ingredient, we understand the extra requirements and can offer solutions for the most sensitive needs.

Highest quality raw materials prevent harmful migration from packaging into your product:

- Approved for use in food contact, in accordance with relevant regulations for plastic materials (EU 10/2011, FD 21 CFR 177.1520)
- Pharmacopeia approved solutions meeting international standards
- European Pharmacopoeia (8th Edition 2014) Monograph 3.1.4. "Polyethylene without additives for containers for preparations for parenteral use and for ophthalmic preparations"
- United States Pharmacopoeia 88 Class VI







Solutions for products sensitive to oxygen and/or humidity

- Special aluminum foil or EVOH films with barrier properties for extra protection from oxygen and moisture, extending shelf life of your product
- Gas flush /vacuum valves to remove residual oxygen from the FIBC
- Protection against electrostatic hazards during FIBC handling

Hygienic outer liners shield the inner liner and FIBC from contamination by:

- Protecting the filled FIBC during transportation to end user
- Minimizing cross-contamination risk during storage of filled FIBC

Clean room production minimizes external contamination sources

- Air filtration and overpressure
- Experienced and highly trained production teams
- Hygiene mindset and awareness to end users' application
- Fully automated clean room production with options to fully seal the top and bottom of the liners



Available options Pharma

- Pharma LDPE / Conductive Pharma LDPE
- Pharma Alu / Conductive Alu Pharma



Available options Food Ingredients

- LDPE / Conductive LDPE / Permanent Antistatic LDPE
- EVOH / Permanent Antistatic EVOH
- Alu / Conductive Alu



Greif UN FIBCs

Safe handling and transportation for hazardous goods

The transportation of hazardous products is regulated within a framework established by the United Nations (UN) Subcommittee of Experts on the Transport of Dangerous Goods.

It provides consistent international guidelines to prevent accidents and damage to people, property, and the environment. When you work with Greif Flexible Products & Services, you're leveraging a team that ensures your FIBCs have been designed, tested, and manufactured within full adherence to these UN regulations.



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Top Lift, Drop, Topple, Righting, Stacking and Tear Test.



Greif's UN Test Laboratories are certified independently to conduct tests in accordance with the UN dangerous goods regulations.

Drop and Topple test Heights: Packaging group I Substances presenting high danger 1.8 m

Packaging group II Substances presenting medium danger 1.2 m

Packaging group III Substances presenting low danger 0.8 m



UN Marking

All FIBCs carrying dangerous goods must be labeled in accordance with the UN regulations.

FIBC type codes	
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UTIC	Jaice	ı a	\mathbf{D}

- 13 H2 Coated Fabric
- **13 H3** Uncoated Fabric + Inner Liner
- **13 H4** Coated Fabric + Inner Liner

- X for packaging groups I, II and III (FIBCs for solids only)
- Y for packaging groups II and III
- Z for packaging groups III





warning labels

Static Protective FIBCs

Safe handling in potentially explosive environments

Some FIBC applications occur in potentially hazardous explosive atmospheres. Filling and Discharging creates static electricity. Fine powders with low (MIE) minimum ignition levels can create combustible dust clouds within the bag and surrounding environment.

When these factors are combined, they can create a risk of dangerous explosion if not handled safely. Therefore, it is critical to select the right FIBC type according to risk level. Greif FIBCs are designed and constructed to ensure they are compatible with the environment and application in which they are used. Full compliance with international standards for electrostatic classification of FIBCs (IEC 61340-4-4).



Bulk product in FIBC		Surroundings	
MIE of Dust	Non-flammable atmosphere	Dust zones 21-22 1000 mJ ≥ MIE > 3 mJ	Gas zones 1-2 (Explosion groups IIA/IIB)Or dust zones 21-22 (MIE ≤ 3 mJ)
MIE > 1000 mJ	A, B, C, D	B, C, D	C, D
1 000 mJ ≥ MIE > 3 mJ	B, C, D	B, C, D	C, D
MIE ≤ 3 mJ	C, D	C, D	C, D

Source: IEC 61340-4-4 Table 4 - Use of different types of FIBC

TYPE D **TYPE B** TYPE C NO YES NO Need for FIBC grounding & special handling equipment YES Compliance with EC 10/2011 & YES YES FDA food contact regulation no limitations Coated fabric. liner or no limitations on designs net baffle designs on designs Possibility to control the FIBC YES NO YES with metal detection NO Dissipation of static charge via NO YES Unique built in characteristics Requires grounding

Disclaimers:

FIBCs and different hazard discharge types

- The FIBC construction is designed to exclude incendiary discharges from the fabric surface during their intended use.
 Two B, C & D, FIBCs constructed in compliance with the requirements of UC 61240.4.4 standard do not recoverily.
- Type B, C & D FIBCs constructed in compliance with the requirements of IEC 61340-4-4 standard, do not necessarily
 ensure that hazardous electrostatic discharges, e.g. Cone Discharges or Spark Discharges from charged conductive
 products, will not be generated by the contents in the FIBC.
- The ability to safely use FIBCs in hazardous explosive atmospheres may change if an inner liner is installed in the FIBC. In addition to the separate requirements for FIBC and inner liners, there are requirements that certain combinations of FIBC and inner liner shall meet.

Safety precautions during filling & discharging of FIBCs

The FIBC user, should ensure that isolated conductive objects (e.g. tools, bolts, clips, etc.) should not be stored on, attached to, or even temporarily placed on any type of FIBC during filling and emptying operations. The user should ensure that all conductive objects, including personnel, Type C FIBCs and any conductive contents of the FIBC, within a hazardous explosive atmosphere shall be properly earthed. Type D FIBCs are not considered to be conductive objects and are not required to be earthed. Precautions should be taken to prevent the contamination of any FIBC with substances (e.g. water, rust, oil, grease, etc.) that might create an ignition hazard or impair charge dissipation.

L2

L3

StatGuarD: safe, fully compliant and reliable

1. Full compliance with IEC 61340-4-4 Type D qualification & testing parameters

- Breakdown Voltage < 6 kV (IEC 61340-4-4 section 7.2)
- No ignition at Discharge Incendivity Testing (IEC 61340-4-4 sections 7.3.2 & 9.2)

2. Externally validated compliance at SWISSI and CHILWORTH

 FIBC designs with and without inner liner have been certified in accordance with IEC 61340-4-4

3. Food approved solution manufactured in suitable environment according to application

- Optional metal detection control & production in a clean room
 environment
- 4. Unique recipe utilizing permanent antistatic additives

- 5. Range of FIBCs with or without inner liner. Suitable for use in re-conditioning processes
- Dissipative fabric & compatible L2 liner specifically developed by Greif for Type D application
- Formstable FIBCs for optimized storage & transportation

6. Safety, consistency & reliability

- End-to-end process control through in-house production of critical components (fabric & inner liner)
- No 3rd party production involved, Greif offers a vertically integrated global manufacturing network
- Rigorous quality control throughout manufacturing process
- State of the art in-house testing laboratory, fully equipped to perform all testing & validations in accordance with IEC 61340-4-4
- 7. Product support from internal experts with knowledge to facilitate FIBC selection guidance

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Greif Type D – StatGuarD

Type D FIBCs are made from antistatic fabric with dissipative threads. Static charges are dissipated at low energy levels by the corona effect, grounding is not required.



Greif Type C – Conductive FIBC

Conductive yarn is woven into the fabric creating a fully interconnected grid with a resistance to groundable point of less than 1,0 x10^A7 Ohm with breakdown voltage of less than 6kV. Conductive tabs are added to the FIBC to allow grounding during filling and discharging. Effective grounding is critical for safe application.



IN ACCORDANCE WITH IEC 61340-4-4

Source: IEC 61340-4-4 Table 5 – Inner liners and FIBC combinations that are permissible and not permissible in hazardous explosive atmospheres

Liner classification in IEC 61340-4-4

- Inner liners made from materials with surface resistivity on at least one surface less than or equal to $1,0x10^{4}\Omega$
- Inner liners made from materials with surface resistivity between 1,0x10^9 Ω and 1,0x10^12 Ω at both sides
- When only one side antistatic (i.e. 1,0x10^9 Ω and 1,0x10^12 Ω) then the breakdown voltage shall be less than 4 kV
- Inner liners made from materials with surface resistivity of greater than 1,0x10^12 Ω
- The breakdown voltage through the material shall be less than 4 kV

Combination of FIBC & Inner Liners

С Туре	Qualified Liner
e B	L2 & L3
e C	L1 & L2
e D	L2



Quality

Highest quality standard in FIBC industry

When ordering packaging for your product, you expect an FIBC which meets all relevant industry and/or regulatory requirements and consistently performs to specification. Greif has a robust Quality Program to accomplish this.

- Production processes are monitored under strict controls and integrated with a stringent
 Quality Management System
- Inhouse testing laboratories validate compliance of material properties with international standards
- Internal and external audits and certifications
- End-to-end supply chain management and control
- Traceability of products and components
- Continuous improvement of products and people





Our Testing Laboratories

Our state-of-the-art, in-house laboratories ensure compliance and conformity to agreed specifications covering the entire production process – from incoming raw materials to finished products.

A few examples of our testing capabilities:

- Incoming materials and semi-finished products: melt flow index (MFI), mechanical properties (e.g., strength, elongation, etc.), UV resistance, surface resistance, breakdown voltage, MVTR
- Electrostatic: Type C compliance and Type D ignition test
 according to IEC 61340-4-4 standard
- UN test for Dangerous Goods: top lift, drop, righting, topple, tear, and stacking tests
- Supported by our dedicated R&D team

Our Certifications

At Greif, we take necessary steps to ensure products supplied meet mandatory industry and legal requirements. For more information about requirements specific to your industry or region, please contact us.



Food Safety & Hygiene

With continuously evolving regulations, food safety is in the spotlight. Industrial packaging plays a vital role due to its direct contact with the product. A dedicated and knowledgeable team ensures the industry regulations and compliance are effectively managed.

Greif ensures hygienic packaging and containment of your products by providing:

- best possible product design
- robust quality and compliance
- · end-to-end supply chain control
- state of the art manufacturing facilities







The Strict Quality Control plan is in place for every step of production. Engagement and training sessions are driving our quality culture and continuous improvement.

Container Liners

Woven liners for the transportation of dry bulk products in containers

Polypropylene and polyethylene container liners are designed to allow the conversion of any ISO shipping container into a bulk transport system for dry flowable products such as powders, granules and food products. Our container liners offer a cost effective, protective, value packaging alternative which serves to transport your goods in a safe and contamination free package.







User-friendly, lightweight liners. Quick and easy installation.



Advantages

- ✓ Savings on packing costs
- ✓ Additional protection of the product
- ✓ Higher loading percentage
- ✓ Lightweight liner
- ✓ Minimized packing waste
- ✓ Easy to install
- ✓ Time and labor savings due to efficient loading and discharge
- ✓ Food approved



Tailored designs to specific applications:

• Loading by filling spouts direct from Silos (Gravimetric), Powders and Granules • Loading through the door end Bulk Head (Pneumatic), Powders and Resins • Loading through the door end Bulk Head (Conveyor), Malt, Cocoa, Coffee, Soy Beans • Discharge by spout or by letterbox system (Gravimetric or Pneumatic)



Reconditioning

Cleaning FIBCs for re-use in a responsible, effective manner

Rebu is the leader in the field of FIBC reconditioning. We offer a comprehensive service for the re-use of your FIBCs that is focused on safety and sustainability.

This total service concept consists of collecting your emptied FIBCs from the end user, the FIBCs are inspected, cleaned and prepared for re-use. Our expanded transport network covers Europe and provides a frequent collection of your FIBCs. To minimize the costs of transport we offer your end user advice, such as training of personnel and correct usage of our palletizing system used to collect your empty FIBCs. Refurbishing, inspection and, if necessary, replacement of document pockets and/or closures takes place in our production facility in Moerdijk, The Netherlands.



Benefits for customer:

- ✓ Sustainable
- ✓ Re-use of packaging material
- ✓ Minimize your packaging costs
- ✓ Minimize your packaging waste
- ✓ Additional service offering
- ✓ High quality reconditioning
- ✓ Promotes safe re-use
- ✓ Quick delivery times

Benefits for end user of filled FIBCs:

- ✓ Reduced costs for waste removal
- ✓ Reduced collection costs
- ✓ Optimized storage capacity frequent collections
- ✓ Loan of palletizing system
- Effective training of personnel





Process



Serious about Sustainability

Our business strategy and operations, follow our core values and The Greif Way. We are ethical, strong through diversity, serious about sustainability and committed to continuous improvement in all aspects of our work.

Our Environmental, Health and Safety (EHS) activities are built upon three pillars: skilled people; management systems; and design and technology. We honor our history as we focus on our future. We use financial, natural and human resources wisely without compromising the ability of future generations to meet their needs.

Improving Safety

Our first and highest priority is **safety**. We are diligent in protecting our own safety as well as the safety of our co-workers, our customers and neighbors worldwide.

This emphasis goes far beyond an aspiration and is regularly measured in each of our business units around the world.

Reducing Environmental Impact

We have an ongoing commitment to minimize the impact our business has on the environment. Since 2003, we have been working to eliminate waste in all areas through product innovation and by making our processes more efficient and consuming less.

Enhancing Livelihoods through innovation

As environmental, social and economic challenges in our world grow rapidly, we see this an opportunity to innovate and create products that benefit our customers and the environment and spur positive social change.

For more details on our sustainability initiatives, please visit: http://www.greif.com/people--planet



Achievements and Recognition

Greif employees work hard to make a difference in their communities and around the world. We are honored when organizations around the globe recognize us for our innovation, business practices and people.

Ecovadis. The first collaborative platform enabling companies to monitor the sustainability performance of their suppliers, across 150 sectors.



The Carbon Disclosure Project (CDP), an international, non-profit organization providing a global system for companies and cities to measure, disclose, manage and share vital environmental information.



Together for sustainability

provides a global audit program to assess and improve sustainability practices within the supply chains of the chemical industry.



Sedex is the world's largest collaborative platform for sharing responsible sourcing data on supply chains, used by more than 40,000 members in over 150 countries.





Safety

Greif FIBCs are UV stabilized in accordance with the ISO 21898:2004 Standard

Due to the sensitivity of woven polypropylene fabric against UV light, we advise you to protect the FIBCs from rain and/or prolonged sunlight.

How to use FIBCs for non-dangerous goods Do

- **DO** select the right FIBC for the job in consultation with the manufacturer or supplier
- **DO** read the instruction label on the FIBC
- **DO** inspect reusable FIBCs before refilling
- **DO** check that discharge spout is closed off before filling
- **DO** ensure that the filled FIBC is stable
- **DO** close the top inlet correctly
- **DO** use lifting gear of sufficient capacity to take the suspended load **DO** adjust the distance between forklift arms to the correct width for the FIBC being handled
- **DO** tilt the mast of the forklift truck rearwards to an appropriate angle **DO** ensure that crane hooks, bars or forklift arms used for lifting are of adequate size and are rounded to at least the thickness of the sling, belt or rope suspension, with a minimum radius of 5 mm **DO** take appropriate measures with regard to dust control **DO** consider the possibility of static electricity hazards **DO** protect the FIBCs from rain and/or prolonged sunlight
- **DO** ensure the FIBCs are adequately secured in transportation

















Don't

ΟΝ'Τ	choose FIBCs without consulting the manufacturer or supplier
ΟΝ'Τ	exceed the SWL in any circumstances
ΟΝ'Τ	fill the FIBCs unevenly
ΟΝ'Τ	stop or start suddenly during transporting
ΟΝ'Τ	subject FIBCs to snatchlift and/or jerk stops
ΟΝ'Τ	drag FIBCs
ΟΝ'Τ	allow personnel under suspended FIBCs
ΟΝ'Τ	allow FIBCs to project over the side of a vehicle or pallet
ΟΝ'Τ	tilt the mast of the forklift forward
ΟΝ'Τ	withdraw the forklift arms prior to relieving all the load
	on the lifting devices
ΟΝ'Τ	stack FIBCs unless sure of their stability
ΟΝ'Τ	use FIBCs in new conditions without consulting the manufacture
	or supplier
ΟΝ'Τ	re-use single-trip FIBCs
ΟΝ'Τ	repair heavy-duty reusable FIBCs unless the
	as-new requirements can be met



www.greif-flexibles.com