



So many products are now in our Regen range



SMARTLIFT

BULK PACKAGING

Bag Testing Procedures

U.N Certified



www.smartliftbulkpackaging.co.uk



ADR & UN-Certified Bulk Bags for Hazardous Goods

Safe, Compliant Bulk Packaging for Dangerous Materials

Smartlift Bulk Packaging supplies ADR and UN-certified bulk bags specifically designed for the safe transportation of hazardous and potentially hazardous materials. Our UN-approved Flexible Intermediate Bulk Containers (FIBCs) are manufactured and tested to meet strict international standards, providing a reliable and compliant solution for transporting dangerous goods by road, rail, and sea.

Whether you are handling chemicals, powders, minerals, waste products, or other regulated substances, our certified bulk bags help ensure safety, compliance, and peace of mind throughout the supply chain.

UN-Certified Packaging for Dangerous Goods

The transportation of hazardous materials requires packaging that has been rigorously tested and approved to United Nations standards. Smartlift Bulk Packaging offers a comprehensive range of UN-certified bulk bags that fully comply with these regulations, enabling products to be transported safely and legally.

Every certified bulk bag is clearly marked and tested in accordance with UN Orange Book requirements. Copies of certification and test reports are available upon request.

Understanding ADR Regulations

Dangerous goods are substances or materials that may present a risk to people, property, or the environment during transportation. ADR (Accord Relatif au Transport International des Marchandises Dangereuses par Route) regulations govern the international carriage of dangerous goods by road and are designed to ensure hazardous materials are packaged, labelled, and transported safely.

For many hazardous substances, the use of UN-certified packaging is a legal requirement. By choosing Smartlift Bulk Packaging, you can be confident your bulk bags meet the relevant ADR and UN standards required for compliant transportation.

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U.N. Testing for Packaging Groups 1 & II

For transporting certain hazardous materials, FIBCs require a U.N. certification. The following tests ensure that the package meets the required safety standards:

- Top Lift Test:**
 The FIBC is filled to its required load, then loaded to 6 times the SWL, holding the load for 5 minutes.
- Tear Test:**
 After filling the FIBC to twice the SWL, a 100 mm cut at a 45-degree angle is made. The container must hold the load for 5 minutes without the tear increasing in length more than 25% of the 100mm cut
- Stacking Test:**
 The FIBC is filled to its SWL, then 2 FIBC's filled 1.8 times the safe working Load (eg: - 1000Kg + 1800 + 1800 stacked weight 3600Kg) is stacked on top for 24 hours. Stacking requirements may vary depending on the package's intended use and can be tested accordingly
- Drop Test:**
 The filled FIBC is dropped from a height of 1.2 meters onto its base. (for packaging Group III this height is reduced to 0.8m)
- Topple Test:**
 The filled FIBC is toppled from a height of 1.2 meters onto its side. (for packaging Group III this height is reduced to 0.8m)
- Righting Test:**
 The FIBC, filled to its SWL, is lifted by two loops at a speed of 0.1 m/s to test its stability during handling.

Packaging Groups for Testing	UN Symbol for Marking	Degree Of Danger	Max Volume permitted for UN Certification
Packaging Group I	X	High	1.5m3
Packaging Group II	Y	Medium	3.0m3
Packaging Group III	Z	Low	3.0m3

Options for UN Certified FIBC Designs			
	Uncoated Outer Fabric	Coated Outer Fabric (dust seams optional)	Inner Polythene Liner
13H1	X		
13H2		X	
13H3	X		X
13H4		X	X

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What do the printed UN markings mean on a FIBC

 13H4/Y/****/H/BC-4753-25-OKF/4346/1207

 = UN Package Symbol

13H4 = Coated Outer Fabric with inner polythene liner

Y = Packaging Group tested to (in this case packaging group II)

**** = Month and year of package Manufacture

H = Country of Test House (in this case Hungary)

BC-4753-25-OKF = Certificate number given by competent body

4346 = Refers to the stacked weight (Kg) during testing

1207 = Gross weight (in this case 1200Kg mass bag weight 7Kg)

IP-1 Approved Packaging Solutions

Alongside our ADR and UN-certified ranges, Smartlift Bulk Packaging is a recognised market leader in the design and supply of IP-1 rated soft-sided packaging solutions.

These specialist packages are widely used for the transportation of low-level waste and are available in both flexible and semi-rigid formats. Our semi-rigid designs are engineered to self-stand, reducing the need for additional handling equipment and improving operational efficiency.

In addition to standard compliance testing, our IP-1 packages undergo further assessments to ensure they remain fit for purpose for the safe and secure transportation of low-level waste materials. Additional test reports are available upon request.

For more than 20 years, Smartlift Bulk Packaging has delivered cost-effective packaging solutions to the oil and gas, chemical, nuclear, and remediation sectors. Through strong partnerships with industry-leading organisations across both the public and private sectors, we remain at the forefront of compliance, innovation, and industry best practice.

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Why Choose Smartlift Bulk Packaging?

Extensive Stock Availability

Our large warehousing facilities allow us to maintain significant stock levels of specialist packaging products, enabling us to provide off-the-shelf solutions with rapid delivery and dependable supply.

Combined with our UK manufacturing capabilities, we can also design and produce bespoke packaging solutions with fast turnaround times.

Industry-Leading Quality

With more than 100 years of combined industry experience and the support of our dedicated quality and environmental team, Smartlift Bulk Packaging has built strong, long-term relationships with customers and stakeholders.

Every package we supply is manufactured to the highest quality standards, ensuring durability, reliability, and full regulatory compliance.

1,000's of Bulk Bag Specifications

We offer one of the UK's most comprehensive ranges of bulk bags, from standard products to highly specialised packaging solutions. Whatever your application, we can provide a solution tailored to your requirements 'often off the shelf'

Custom Manufacturing & Branding

We design and manufacture bespoke bulk bag solutions to suit your operational needs. Customisation options include dimensions, lifting configurations, discharge systems, liners, printing, and branding, ensuring your packaging integrates seamlessly into your processes while supporting your brand identity.

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