

## Flexible Intermediate Bulk Container



### Introduction

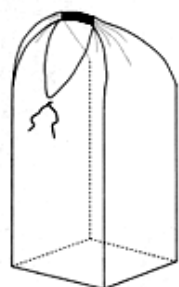
Flexible Intermediate Bulk Container (as FIBC) is design for low-cost and efficient transportation. It is made from PE or PP, finished by suitable processes. The capacity is from 500KG to 2000KG and safety factor is 3:1 to 8:1. The FIBC is light and soft but strong, and enhanced with acid-resistant, moisture-proof etc. Even more, it is can be apply in unitization-transportation just by lift or fork. Now, FIBC is widely used in packing of powder, granule products, such as chemical, material. It is ideal for storage and transportation.

### 1. Type

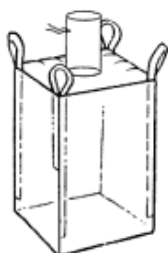
Type	Description
General bag	Made by coated or uncoated material and normally as U shape or Cylinder. This kind of bag is the most used and can apply to transport farm products, mineral and cement etc.
Baffled bag	By deployed clapboard, this bag can avoid unsound deformation after stuffed. So it is easy to move and stack.
Sift-proof bag	In order to prevent leakage at suture, This bag sewn up with leakage-proof material. And it main apply to transportation for powder.
Ventilated bag	With designed less weaving at longitude, this bag is good at evaporation of water but still strong. It could reduce the mildewed damage of cargo. This model is suitable for farm products.
Food-grade bag	We purchase raw material separately for unique order and strict obey the National Standard during produce. All the finish bags are absolute safe due to the full quality control and they are widely used in food, medical industry etc.
Anti-static bag	This type of bag can eliminate static by static wire sewed in bag body or lifting strap. With the key feature, this type could avoid adsorption of dust and explosion cause by accumulative strong static. And they are mainly apply in chemical, medical industry etc.

*\* Not all type listed*

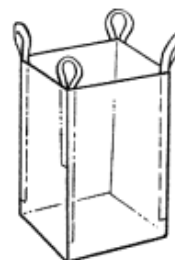
## 2. Body shape



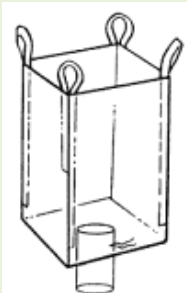
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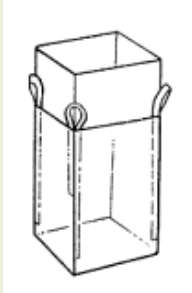
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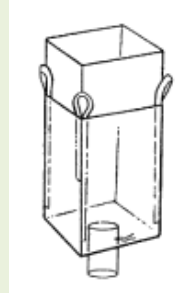
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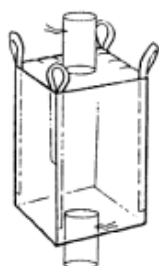
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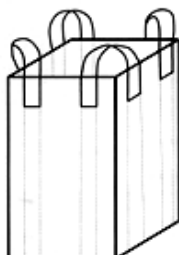
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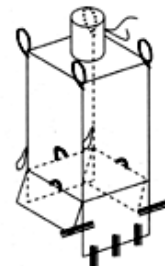
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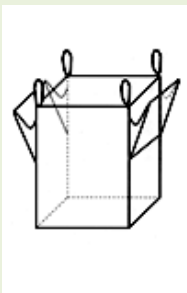
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S8



S9



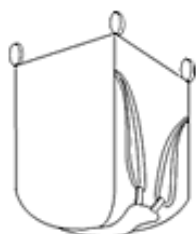
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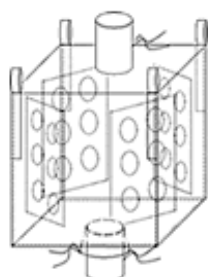
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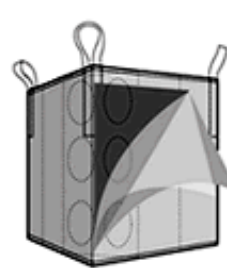
S12



S13



S14



S15

\* reference number given

## 3. Quality control



3.1 Raw material test



3.2 Lifting strap checking



3.3 Stretching test



3.4 Ultraviolet resistant test



3.5 Load test



3.6 Cleaning inspection



3.7 Fault inspection



3.8 Conduction test

## 4. FIBC Reference Standard

### 4.1 Quality check for FIBC (GB10454-89)

#### 4.1.1 Description of standard

Tensile strength of hoisting strap/band (KG per strap)	$F \geq W/S*6$
Tensile stretch of hoisting strap/band (%)	Less than 25 at 0.3 tensile strength
F: Tensile strength, W: Maximum load, S: Number of strap, doubled if ringed connection	
Safety factor: 6:1	
Tensile strength per strap: more than 1500N	

#### 4.1.2 Reference data:

Test Item	Tensile Direction	Body Material			Material of Loading / Discharging spout
		$\leq 1$ MT	$\leq 2$ MT	$\leq 3$ MT	
Tensile strength of hoisting strap/band (KG per strap)	Vertical	$\geq 1470$	$\geq 1646$	$\geq 1960$	$\geq 828$
	Horizontal	$\geq 1470$	$\geq 1646$	$\geq 1960$	$\geq 828$
Tensile stretch of hoisting strap/band (%)	Vertical	$\leq 40$			
	Horizontal				

### 4.2 Physical Performance Test for FIBC (GB/T10454-2000)

No	Test item	Brief description of requirement
1	Lifting test	Hanging with six-times loadage and stay five minutes, the body and load strap of FIBC keep unbroken
2	Drop test	Dropping from 0.8 meter with rated loadage, the FIBC keep unbroken and no leakage
3	Pour test	Being push over from 0.8 meter with rated loadage, the FIBC should keep unbroken
4	Righting test	Side-lay on horizontal place with rated loadage. Lifting up the FIBC at 0.1 meter per second with one strap (or two, if deployed four straps). Till the FIBC turn to upright, it should keep unbroken
5	Tear test	Cut a 100mm incision on the FIBC and fill it with double rated loadage. Lifting it from the ground and keep 5 minutes. The incision should less than 25mm
6	Stack test	Filling with 3600KG cargo and then stacking for 24 hours, any unsound deformation should not occur on the FIBC and also no leakage