

# Understanding UN Markings on: Steel Pails, Plastic Pails, Corrugated Packaging & FIBC's.

Global-Pak Inc. is a supplier of all types of steel/plastic pails, corrugated packaging materials and FIBC's , all of which we can custom fit to your specific need and UN rating.

## FIBC's -Flexible Intermediate Bulk Containers



Standard Bag



Baffled Bag



Cross Corner Bag



Tubular Bag



UN Rated Bag



Conductive Bag



CROHMIQ -Static Protective Type D Bag

## Example of UN Markings for FIBCs:

**u** **n** 13H2/Z/08-01/NL/EWP 283/3600/1000  
A B C D E F G H I J

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- A. (u n)** United Nations packaging symbol
- B. (13)** Flexible IBC for solids, filled or discharged by gravity
- C. (H2)** Code designating the type: Woven PP Fabric coated
- D. (Z)** Code designating the packaging group(s) for which the design type has been approved. Such as : Flexible IBC approved for packaging groups III
- E. (08-01)** Month and year of manufacture
- F. (NL)** State/Country authorizing the allocation of the mark
- G. (EWP)** Name of manufacturer or code identified by competent authority
- H. (283)** Registration number to be attributed by competent authority
- I. (3600)** Stacking test load in kg.
- J. (1000)** Maximum permissible gross mass



# Understanding UN Markings on FIBC's

The transport of dangerous goods is regulated in order to prevent injury to people, harm to the environment and material damages. Global-Pak is committed to providing its customers with the highest level of safety, while maintaining the highest level of quality. Our thorough testing and inspection processes enables us to do so. By following the procedures and regulations we certify in accordance with the United Nations "Recommendations on the Transportation of Dangerous Materials", known as the Orange Book.

We have provided the UN Regulations, Categories and UN Symbol/Markings to help you better understand.

## Regulations of UN Bulk Bag

UN recommendations for the transport of dangerous goods per Orange Book.

IMDG Code - Transport by Sea  
ADR - Transport by Road  
RID - Transport by Rail



## Categories of UN Bulk Bag

UN Codes for Type of Bulk Bags, which are classified by packaging groups.

Degree of Danger	Packaging Group	UN Symbol	Max. Volume
High	I	X	1.5m
Medium	II	Y	3.0m
Low	III	Z	3.0m

Note: X is for packaging groups I,II,III

Y is for packaging groups II and III

Z is for packaging groups III

The FIBCs are tested with Safe Working Loads (SWL) ranging from 500kg(1102lb.) to 2000kg(4409lb). UN bags cannot be labeled as multi-trip. While they are Certified at a 6:1 Safety Factor, the multi-trip designation is applicable to non-dangerous goods only.



## Categories of UN FIBC's (cont.)

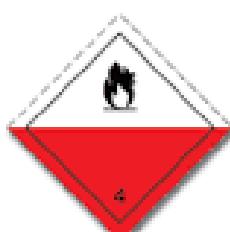
13	Flexible IBC for solids, filled or discharged by gravity (liquids and solids under pressure [>0.1 bar] are not permitted)
<b>There are four types of FIBCs for dangerous goods made from woven plastics:</b>	
13H1	Woven PP fabric without coating or inner liner
13H2	Woven PP fabric, coated
13H3	Woven PP fabric with inner liner
13H4	Woven PP fabric, coated and with inner liner
Y	Flexible IBC approved for packaging groups II and III
Z	Flexible IBC approved for packaging groups III

## UN Classifications



**Class 4.1**

Flammable Solids, self reactive  
Substances and desensitized  
explosives



**Class 4.2**

Substances liable to  
spontaneous combustion



**Class 4.3**

Substances which, in contact  
with water, emit flammable  
gases



**Class 5.1**

Oxidizing substanc-  
es



**Class 5.2**

Organic peroxides



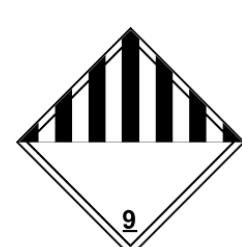
**Class 6.1**

Toxic substances



**Class 8**

Corrosive substanc-



**Class 9**

Miscellaneous dangerous  
substances and articles

## UN Symbol

The United Nations packaging symbol indicates the FIBC has been tested and has passed UN performance tests enabling the certified FIBC to be deemed “UN Approved”.



This UN logo is marked on certified bulk bags.



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## Plastic Pails

Plastic pails offered in a variety of sizes: 1 gallon, 2 gallon, 3 gallon, 3.5 gallon, 3.9 gallon, short 5 gallon, standard 5 gallon 70mil, 5 gallon (UN), 20 liter (UN), and 6 gallon (UN)

Our plastic pails are coated with a prime high density polyethylene (HDPE) resin and handles are made of galvanized wire with injection molding to create a no-mark plastic grip.

Plastic pail color is entirely dependent on customers specifications. We offer custom printing, as well as flame treated pails. We can reproduce your artwork on the pail of your choice. We will work closely with you to determine the printing size/area for the pail you specify.

Our plastic pails can be UN rated. If we don't have the number you need, or if you are unsure of the rating you require, contact us and we'll be happy to consult with you regarding your plastic pail options.



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## Steel Pails

Global-Pak offers a complete line of steel pails, available in: 2 Gallon, 2.5 Gallon, 3 Gallon, 3.5 Gallon, 4 Gallon, 5 Gallon, 5.5 Gallon, 6 Gallon, and 6.5 Gallon.

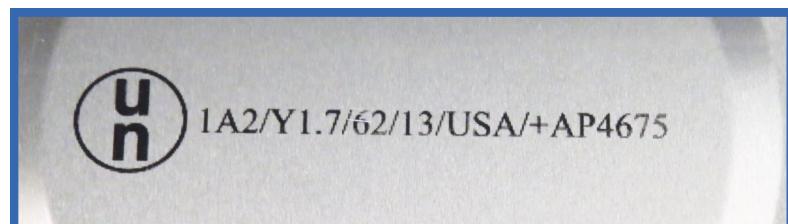
We offer a variety of styles: open top nested, open top straight sided, tight head (standard or inverted).

Pail liners can be customized- electing for rust inhibitor lining, pigmented epoxy phenolic lining, or gold phenolic lining.

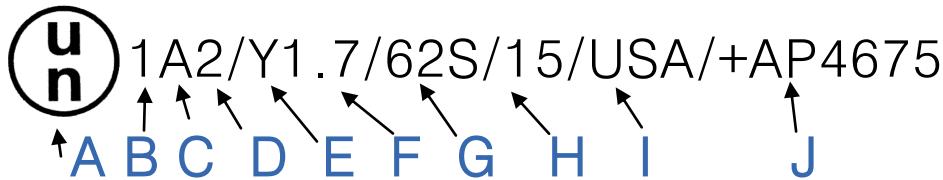
Our standard pail colors are black and gray, we also offer white and light gray. Customized colors available upon request.

Global-Pak also offers custom print & branding services, eliminating the need to use paper labels on your pails. Our printing can be tailored to meet your needs, whether you require a basic print-up or a detailed, ready-for-retail design.

Many of our steel pails can be UN rated. If we don't have the number you need, or if you are unsure of the rating you require, contact us and we'll work with you to design a pail to fit all of your needs.



## Example of UN Markings of Pails



- A. (u)** United Nations packaging symbol- indicates UN tested & certified.
- B. (1)** Numeral indicates Type of Container: **1**.Drum/Pail **2**.Wooden Barrel  
**3**.Jerrican **4**.Box **5**.Bag **6**.Composite **7**.Pressure Receptacle
- C. (A)** Letter code designates the Material of Construction: **A**.Steel  
**B**.Aluminum **C**.Natural Wood **D**.Plywood **F**.Reconstituted Wood  
**G**.Fiberboard **H**.Plastic **L**.Textile **M**.Paper,Multiwall **N**.Metal-(not Steel or Aluminum) **P**.Glass,Porcelain or Stone-ware.
- D. (2)** Code designating the packaging: **1**. Tighthead/Closedhead (non-removable head) **2**. Openhead (head can be removed)
- E. (Y)** Indicates Level of Performance:
  - X**. High Hazard Level- for packaging groups I,II,III
  - Y**. Medium Hazard Level-for packaging groups II and III
  - Z**. Low Hazard Level-for packaging groups III
- F. (1.7)** Gross Mass (maximum) for solids in kilograms or Specific Gravity (maximum) for liquids.
- G. (62)** Hydrostatic Pressure: **Solids**- the gross mass is followed by the letter **S** to indicate solid. **Liquids**- hydrostatic pressure in kPa, rounded to nearest 10 kPa.
- H. (13)** Number indicates year packaging was manufactured- last two digits **(2015)**
- I. (USA)** Country of Manufacturer
- J. (+AP4675)** Code for Manufacturer or UN Certifying agency.



# Understanding UN Markings on Pails, Corrugated & more

The transport of dangerous goods is regulated in order to prevent injury to people, harm to the environment and material damages. Global-Pak is committed to providing its customers with the highest level of safety, while maintaining the highest level of quality. Our thorough testing and inspection processes enables us to do so. By following the procedures and regulations we certify in accordance with the United Nations "Recommendations on the Transportation of Dangerous Materials", known as the Orange Book.

We have provided the UN Regulations, Categories and UN Symbol/Markings to help you better understand.

## Packaging Identification Codes

UN Packaging Identification Codes:		
Type of Container	Material Construction	Category within Type
1 = Drum	A = Steel	1= Closed Head
2 = Wooden Barrel	B = Aluminum	2= Open Head
3 = Jerrican	C = Natural Wood	
4 = Box	D = Plywood	
5 = Bag	F = Reconstituted Wood	
6 = Composite Packaging	G = Fiberboard	
7 = Pressure Receptacle	H = Plastic	
	L = Textile	
	M = Paper, Multi-Wall	
	N = Metal other than Steel or Aluminum	
	P = Glass, Porcelain, or Stoneware	



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## Corrugated Packaging

Global-Pak stocks a variety of corrugated packaging, partnered with some of the best corrugated manufacturers and sheet plants in the market today.

Our larger orders allow you, the customer, the opportunity to order in a way that fits your business and not carry too much excess inventory for a long period of time. We have the ability to custom order for our customers as well, providing die cuts and boards where needed and even custom printing. If you are not exactly certain what your needs are, we can send a member of our highly trained staff to you and have a container designed to your exact needs. Whether it is a small order for ten small cartons, or a large order of several hundred Gaylord boxes, let Global-Pak be your packaging partner for your corrugated needs. Our corrugated line and capabilities include but are not limited to:

Single Face Corrugated

Corrugated sheets

Boxes

Gaylords

Die-Cuts

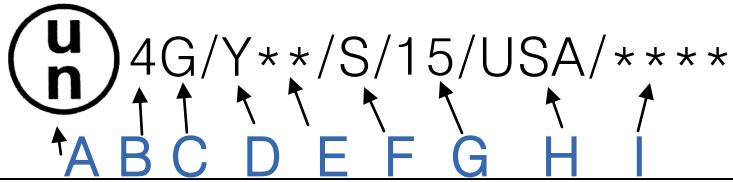
Haz-Mat Boxes

Double and Triple Wall

Available in A, B, C, and E Flute



## Example of UN Markings of Corrugated Box



**A.**  United Nations packaging symbol- indicates UN tested & certified.

**B. (4)** Numeral indicates Type of Container: **1**.Drum/Pail **2**.Wooden Barrel  
**3**.Jerrican **4**.Box **5**. Bag **6**. Composite **7**. Pressure Receptacle

**C. (G)** Letter code designates the Material of Construction: **A**.Steel  
**B**.Aluminum **C**.Natural Wood **D**. Plywood **F**. Reconstituted Wood  
**G**.Fiberboard **H**.Plastic **L**.Textile **M**.Paper,Multiwall  
**N**. Metal-(not Steel or Aluminum) **P**.Glass,Porcelain or Stone-ware.

**D. (Y)** Indicates Level of Performance:  
**X**. High Hazard Level- for packaging groups I,II,III  
**Y**. Medium Hazard Level-for packaging groups II and III  
**Z**. Low Hazard Level-for packaging groups III

**E. (\*\*)** Gross Mass (maximum) for solids in kilograms

**F. (S)** Indicates packaging is for solids

**G. (15)** Number indicates year packaging was manufactured- last two digits  
(**2015**)

**H. (USA)** Country of Manufacturer

**I. (\*\*\*\*)** Code for Manufacturer or UN Certifying agency.

