PaperIBC for bulk liquid storage and transportation:

Dependable, Economical and Environmentally Responsible

The PaperIBC container from Grayling Industries is a dependable, economical and environmentally responsible alternative to drums, bottle-in-cage and other "heavy footprint" types of intermediate bulk containers.

Dependable:

The heart of the PaperIBC system is the Guardian form fit liner manufactured by Grayling Industries. Grayling is a leading manufacturer of IBC liners for industrial processors of bulk materials and of critical use containment products for the hazard remediation industry both of which require 100% product performance.

Guardian liners are manufactured in an ultra clean environment and are constructed of FDA approved materials in our IMS certified manufacturing facility.

The PaperIBC container has passed the stringent ISTA (International Safe Transit Association) vibration and shock tests and has met the NMFTA (National Motor Freight Traffic Association) requirements for intermediate bulk containers for liquids. The heavy duty nine ply PaperIBC container is capable of withstanding up to 10,000 lbs of compression force.

Economical:

Unlike 55 gallon drums and other IBCs, there are no cleaning expenses or return freight costs associated with the PaperIBC and there is significantly less storage space required to inventory the containers and less freight expense to initially receive the containers.

- 80% less storage space is required for unassembled PaperIBCs
- No cleaning or disposal costs and no return freight expense is incurred using PaperIBCs.

Environmentally Responsible:

The PaperIBC is constructed of a renewable resource and is completely recyclable. The container is a "one-way" package, so there are no fossil fuels consumed to return the package after dispense and there is no landfill space consumed either as the container is:

- Biodegradable
- Recyclable and
- Waste-to-energy efficient.

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80% less Space Required:

The PaperIBC requires 80% less space for storage and shipping than other non-collapsible IBCs.

48 Drums

48 empty 55 gallon drums that will hold 2,640 gallons of product = 12 pallet positions or 192 square feet

10 Bottle-in-Cage

10 empty bottle-in-cage totes that can hold 2,750 gallons of product = 10 pallet positions or 125 square feet

10 PaperIBCs

10 empty PaperIBCs that can package 2,650 gallons of product = 1 pallet position or 32 square feet

Additional Security Provided:

In addition to the strength and durability features of the container, the PaperIBC also features a unique dispense fitment "locking ring" that protects the fitment and liner and insures that the fitment stays secure in the correct position during the rigors of shipping and handling.

Also for additional security, the corrugated flutes of the container are covered to insure that the container is hygienic and contaminant free.

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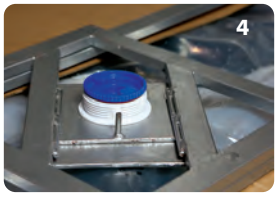
PaperIBC Assembly and Use Instructions



Assembly:

1. Position the Paper IBC body on the pallet, open and center the box on the pallet using the Squaring Tool. Leave the Squaring Tool in place and position the Filling Bridge attachment nearby for future use.
2. Open the cassetted liner package and remove the protective wrap on both the fill and dispense fitments. Remove the locking ring and place aside for use later. Remove the protective cap from the dispense fitment. Fully extend, and even hyper extend, the flap on the cassette where the dispense fitment is secured. (this will help in positioning the dispense fitment with the dispense port on the IBC body)
3. While holding on to the filling fitment, carefully lower the cassetted liner into the IBC, taking care that the dispense fitment will be aligned on the correct sidewall of the IBC once the cassette is fully opened.
4. Fit the Filling Bridge attachment onto the Squaring Tool. Insert fill fitment into Filling Bridge receptacle and secure locking device.
5. The dispense fitment should be accessible through the dispense port. Reach through the dispense port and, with your fingers inside the fitment, pull the dispense fitment snugly into the port. Insert the locking ring into the port and begin threading the ring onto the dispense fitment. Finish tightening the ring with the locking ring tightening tool and thread the protective cap back onto the dispense fitment.
6. The package is now ready for filling.

Shipment or Storage:

1. Once the package has been filled, replace the protective cap on the filling fitment. Disengage the filling fitment from the filling bridge and remove the bridge.
2. If extra protection from the elements is required, cover the IBC with the optional polyethylene protective shroud.
3. Assemble the lid and fit onto the container.
4. Band the container to the pallet with four straps, using the guide provided on the lid.
5. The Paper IBC is now ready for shipment or storage.

Dispensing:

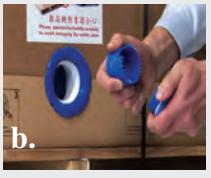
To dispense product from the container, no venting is required, simply:

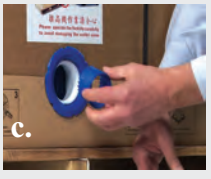
a. remove the protective cap from the dispense fitment,

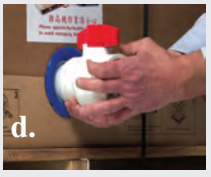
b. separate the crown cutter from the cap,

c. reinsert the cutter with the serrated edges facing towards the liner

d. and thread the 2" ball valve into the dispense fitment







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