



SPACE EFFICIENT  
COST EFFECTIVE  
SUSTAINABLE  
RECYCLABLE  
EASY TO USE  
DISPOSABLE  
RELIABLE  
STRONG

An innovative perspective on intermediate bulk containers

# SpaceKraft® products outperform other packaging alternatives

When it comes to transporting and storing nonhazardous liquids, SpaceKraft containers provide a new perspective. Strong, easy-to-use, space efficient and disposable, SpaceKraft products make shipping and storing liquids simple and economical.

The innovative, patented SpaceKraft design delivers advantages for set-up, storage, dispensing and disposal when compared to drums, returnable totes and rigid bottle-in-cage IBCs.

The SpaceKraft container is made from a continuously wound sleeve of linerboard and corrugated medium to create a package that is six to ten layers thick with no seam. This seamless construction has no manufacturing joint which offers extraordinary strength – up to 50,000 pounds of top-to-bottom compression strength without wood or metal components.

Sustainable and Strong. SpaceKraft containers introduce sustainability into your liquid bulk packaging program. The sleeve is made from 100% renewable fiber and complies with the Sustainable Forestry Initiative® (SFI®) Sourcing Standards.

For more than 20 years, SpaceKraft has delivered proven results to thousands of customers in the food and industrial chemical industries. Millions of successful containers shipped prove the success of the SpaceKraft product.



**SpaceKraft containers arrive flat and save up to 80 percent of trailer and warehouse space required for some rigid IBCs or drums.**



**SpaceKraft's outer sleeve, constructed from multiple layers of wound corrugated, provides the top-to-bottom and side wall strength that makes the SpaceKraft tote unique.**

# SpaceKraft® provides Solutions Oriented Packaging

International Paper's SpaceKraft business offers one of the most extensive lines of disposable intermediate bulk containers available from a single source. SpaceKraft provides packaging solutions with different shapes, capacities and styles as well as the flexibility to meet the individual needs of our customers.

The container, **engineered for liquids**, is ideal for a wide range of food and industrial chemical products and is designed for both domestic and export shipments.

SpaceKraft meets FDA, USDA and Kosher requirements for shipping any food product. Applications include aseptic, white room or bulk commodities such as fruit juices, fruit purees, glycerin, propylene glycol, edible oils, salad dressings, liquid sweeteners and flavorings.

SpaceKraft containers are perfect for a diverse range of industrial chemicals, such as inks, adhesives, water-based emulsions, heavy greases, surfactants, lubricating oils, paints and coatings.

In addition to being recyclable, SpaceKraft containers provide seven times the insulation factor of drums and other forms of packaging for superior protection in extreme heat or cold.

Working with the customer, our technical staff can develop custom package specifications to meet product and supply chain needs rather forcing those needs into a single drum or returnable tote design.

## **SpaceKraft containers are**

- **supplied knocked down and shipped flat or set-up and ready-to-fill.**
- **offered in common footprints to match a wide range of pallet and shipping specifications.**
- **designed to handle capacities between 110 - 330 gallons.**
- **configured with an inner liner to meet the specific requirements of liquid applications.**
- **compliant with ISTA, NMFC and IMO protocols.**

# SpaceKraft® is efficient and easy to use

Business today requires you to accomplish more with fewer resources. SpaceKraft has been designed with that in mind and is the ideal replacement for most drums, returnable totes and rigid bottle-in-cage IBCs.

The SpaceKraft IBC arrives at your location one of two ways: knocked down flat or set-up and ready-to-fill.

The traditional SpaceKraft IBC is shipped knocked down flat, like a traditional bag-in-box and assembled at the filling location. SpaceKraft was introduced to meet worldwide demand of food and chemical processors seeking a more cost effective and environmentally friendly means of shipping nonhazardous liquids.

## **SpaceKraft stores flat.**

The traditional SpaceKraft IBC is shipped flat. SpaceKraft containers arrive flat and save up to 80 percent of trailer and warehouse space required for some rigid IBCs or drums and are ideal for applications where space is a premium.

## **SpaceKraft is user-friendly.**

Set-up is easy – the SpaceKraft container is generally assembled in about one minute by one operator. A convenient one-piece cassette holding the inner liner, fill cap and dispense outlet is then inserted, keeping liner handling to a minimum.

As it fills, the inner liner opens inside the sleeve, and the dispense outlet automatically aligns with an outlet hole.

## **Simple. Easy. Efficient.**

**SpaceKraft containers set up in about a minute by one operator.**

**The cassette holds the liner and fill cap in place and properly aligns the dispense outlet with the opening of the container.**



**To fill Spacekraft, attach a quick disconnect fitting to the top of the liner and connect the filling hose. Open the valve and the liner will open and fill automatically.**





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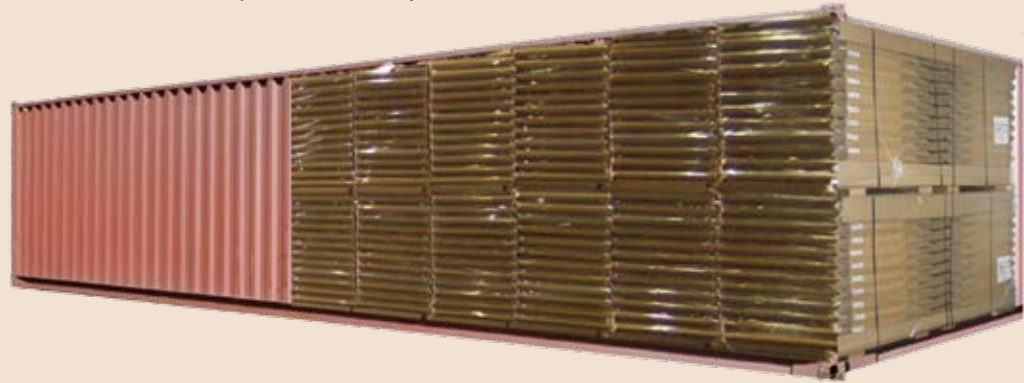
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# SpaceKraft® adds value to global shipping

Exporters worldwide see the value in SpaceKraft. The container is widely used for global shipping. It is ideal for one-way shipments where environmental regulations are strict and disposal is costly.



The cubic shape of SpaceKraft containers allow up to 25% more product volume than drums in the same amount of space! For example, a 20-foot export container will carry 1,100 gallons more product when 20 SpaceKraft with 275 gallon capacity containers are used compared to 80 drums with 55 gallon capacity.



A 40-foot export container will carry up to 288 SpaceKraft sleeves. Shipping empty SpaceKraft sleeves around the globe can be cost effective.



A variety of liners are available to match your product and application needs: high performance, high barrier and extreme toughness. All liners are produced in AIB certified facilities and approved for food contact.



The ReadyFill™ container is sold with a 'hood-wrap' to allow for outdoor storage and use in high humidity environments.

# ReadyFill™ replaces bottle-in-cage style IBC

ReadyFill™ arrives set-up and ready-to-fill, like a traditional bottle-in-cage style IBC. ReadyFill was developed to meet the throughput and productivity demands of high-volume food and chemical processors. ReadyFill containers require no labor for set-up prior to filling.

The container arrives pre-banded and secured to a new heat treated wooden pallet. Once filled, replace the cap and ReadyFill is ready to ship with no additional banding or strapping required.

The ReadyFill design offers all of the material handling advantages of a rigid IBC with all the benefits of a disposable IBC:

- large screw cap
- built-in valve
- new heat-treated wood or plastic pallet
- outside storage

**In addition, no venting is required when emptying.**



One ReadyFill can do the job of up to six drums. ReadyFill arrives pre-banded, ready-to-fill, complete with the new liner and requires no labor for set-up.



ReadyFill arrives complete with the form-fit liner installed. To fill, remove the protective lid and tamper evident seal to access the screw cap.



ReadyFill is compatible with automated filling equipment that is often used with standard drums and totes.

# SpaceKraft® and ReadyFill™ comparison

Attribute	SpaceKraft®	ReadyFill™	Other corrugated	Bottle in Cage	Drums
Standard pallet footprint	●	●	●	●	●
Custom-design options	●	●	●	○	●
Easily recyclable	●	●	○	●	○
Built-in dispensing valve	●	●	○	●	○
Meets FDA/USDA/Kosher requirements	●	●	●	●	●
No venting required when emptying	●	●	●	○	○
Ability to stack up to four high	●	●	○	○	●
Shipped knocked down for freight savings	●	○	●	○	○
Shipped set-up for convenience	○	●	○	●	●
NO return programs, NO disposal fees, NO heel charges, and NO RCRA requirements	●	●	●	○	○

● yes    ● possible    ○ no



**BUILT-IN VALVE:**  
There are different valve options available for the SpaceKraft IBC, depending on the individual application.



The built-in valve feature is available with both SpaceKraft and ReadyFill IBC designs. The built-in valve is an integral part of the SpaceKraft IBC.



Engineered to allow stacking up to four high for liquids depending upon the application.



# SpaceKraft® and ReadyFill™ containers provide simple disposal options

SpaceKraft takes the hassle out of materials handling and disposal compared to other bulk packaging options.

- There is no need to store used empty containers.
- There is no labor and no added expense required to administer a return program for empty drums and bottle-in-cage units.
- There is no need to use harsh chemicals or clean and rinse a SpaceKraft container.
- There are **no 'heel charges.'**

There are downstream benefits to you and your customers.

- The outer sleeve is made of a renewable source and is recyclable.
- The inner liner is recyclable or disposable.
- The pallet is reusable.

**Sustainable and Strong.** The SpaceKraft and ReadyFill containers are engineered to bring sustainability into your bulk packaging program. The sleeve is composed of renewable fiber, 100% of which is sourced through the Sustainable Forestry Initiative® (SFI®) certified procurement system. SFI certification also ensures best-practice harvesting methods are used to protect air, water, soils and wildlife, and that no fiber comes from endangered forests.



The SpaceKraft and ReadyFill liners use about one-ninth of the plastic resin that a bottle-in-cage uses. There is no metal or reinforcing tape in the SpaceKraft container. The SpaceKraft container employs sustainable resources wisely – creating a smaller environmental footprint.



Unlike traditional drums and other types of returnable and rigid intermediate bulk containers (IBCs), the SpaceKraft system offers you and your customers a recyclable container. In addition, the sleeve, liner and pallet components are accepted as municipal waste and acceptable as waste to energy feedstock.

SpaceKraft containers are a viable replacement for drums and bottle-in-cage bulk packaging because they can

- save money.
- save time.
- save freight.
- save labor.

As the world's largest paper and packaging company, International Paper is one of the leading manufacturers of corrugated shipping containers. Each box we produce is designed to fit specific products and applications. We create innovative solutions that satisfy the most challenging needs of customers in market segments worldwide.

SpaceKraft is wholly owned by International Paper, the premier containerboard and corrugated packaging supplier in the world.

In 1990, SpaceKraft was introduced to meet worldwide demand of food and chemical processors seeking a more cost effective and environmentally friendly means of shipping nonhazardous liquids. Unlike drums and most returnable totes, SpaceKraft offers packaging choices that are easy to use, recyclable and sustainable.

In 2003, the innovative ReadyFill container was introduced to meet throughput and productivity demands of high-volume food and chemical processors. ReadyFill containers require no labor for set-up prior to filling.

In 2008, International Paper acquired the SpaceKraft business, a recognized name in the liquid bulk packaging industry with a record of providing high-quality bulk packaging products and service. This acquisition clearly gives International Paper the largest production capacity, industry experience and dedicated bulk packaging personnel in the industry.

### **Safe, Dependable, Value-added Liquid Bulk Packaging Solutions**

SpaceKraft has a dedicated team of liquid bulk packaging experts. Our nationwide network of state-of-the-art facilities, experienced and creative design teams, dedicated sales professionals, as well as our commitment to the bulk packaging business are the keys to our success . . . and to yours.

International Paper Bulk Packaging does more than just protect your product. We support your customer's efforts to improve efficiencies and save money.

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