CDF BAG-IN-BOX





GLOBAL CAPABILITIES

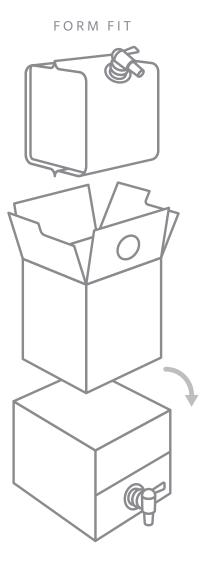
CDF Corporation is an international company that specializes in the manufacture and sale of high quality liners and flexible packaging. Innovation, exploration and partnership have been critical to CDF's success in the world market. We built the business on customer collaboration and a "can do" attitude. We are entrepreneurs at heart. Open to new ideas. Flexible to customer needs. Anticipating, rather than reacting to market trends.

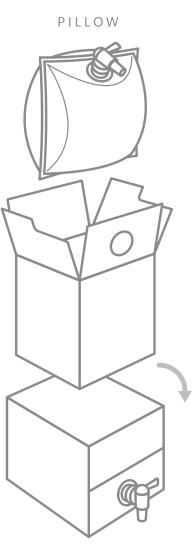


CDF is a global leader with production facilities in the United States, Europe and Asia.

Production Facilities

Bag-In-Box is a flexible package ideal for both chemical and food applications ranging in size from 1L to 25L. CDF offers both form fit and pillow styles to meet all flexible packaging requirements.





WHY CHOOSE CDF

- Experience in flexible packaging from 2 ounces to 300 gallons
- Knowledge of barrier films and custom applications
- Full service provider including film and fitment selection, filling equipment and technical resources
- World class customer service



BAG-IN-BAG PRODUCT BENEFITS

- Significant cost savings in logistics and storage costs
- Reduces costly price fluctuations by using at least 80% less plastic than rigid containers
- Major reduction in handling costs
- Dispenses without surging or glugging
- Fills without air, resulting in no foaming or splashing
- Eliminates internal cleaning costs associated with alternative rigid packaging
- 10:1 logistical transportation advantage, reducing fuel consumption and CO2/greenhouse gas emissions
- 89% fewer CO2 emissions during production than competitive rigid packaging
- 50% fewer CO2 emissions during transport than competitive rigid packaging

BAG-IN-BOX VS. PAIL

- Reduces plastic consumption by 92%
- 10:1 space savings over pails, reducing consumption of fuel and emission of greenhouse gases
- Improves palletization efficiency, allowing for more efficient inventory and transportation stacking





BAG-IN-BOX VS. SEMI-RIGID PACKAGE

- Manufactured with 50% less plastic
- 3:1 space savings, reducing consumption of fuel and emission of greenhouse gases
- Ships and stores flat, maximizing transportation and warehouse efficiency



All liners **are not** created equal



QUALITY

Success in flexible liquid packaging depends ultimately on performance and reliability. CDF1 Smart Seal Technology™ and a series of in-process tests ensure the ultimate reliability of the bag-in-box product.

Proprietary CDF1 Smart Seal Technology optimizes precision and consistency through monitoring the temperature, time and pressure of every seal on every liner. An industry first and a critical aspect of CDF1 Smart Seal Technology is the SCADA software that allows CDF to monitor, measure and store data on every seal of every bag we make. This system allows us to completely verify and validate every bag made at the time of manufacture or anytime later by recalling any of the machine conditions that contributed to the building of the liner.

CDF's in-process tests include a tensile and elongation test, a hydrostatic fitment test, a leak test, dimensional compliance and a 100% visual inspection to verify the performance of the product.



CERTIFICATIONS

- ISO 9001:2008-registered company
- All liners are made from FDA-approved materials for food contact
- Kosher certified
- Manufacturing facilities comply with Good Manufacturing Practice (GMP) standards

SIZES:

Up to 251

FILM OPTIONS:

- Standard barrier laminated polyethylene/nylon
- High barrier laminated polyethylene/EVOH/nylon
- Metalized polyethylene/ metalized polyester
- Other custom films



APPLICATIONS & MARKETS

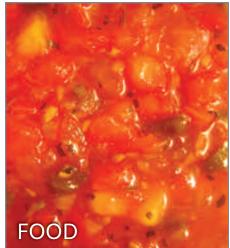


BEVERAGES

Beverage bases Coffee Drink mixes Iced tea Juice Juice concentrates Lemonade Liquor Soft drink ingredients Tea Water Wine

CUSTOMER BASE:

Beverage Distributors Beverage Processing Plants Beverage Producers Catering Contract Filling & Co-packing Operations Convenience Stores Corrugated Manufacturers Restaurants Wholesale Stores



Condiments Dairy Edible oils Flavorings Malt Marinades Post-mix syrups Purees Rice wine vinegar Salsa Sauces Soft serve ice cream Soup Soy sauce Vinegar

CUSTOMER BASE:

Catering Contract Filling & Co-packing Operations Convenience Stores Corrugated Manufacturers Food Distributors Food Manufacturers Food Processing Plants Wholesale Stores

AGRICULTURAL CHEMICALS

Bactericides Fungicides Herbicides Insecticides Liquid fertilizer Pesticides Seed treatments

CUSTOMER BASE:

Agricultural Chemical Contract Fillers Agricultural Chemical Distributors Agricultural Chemical Manufacturers Agricultural Chemical Processing Plants

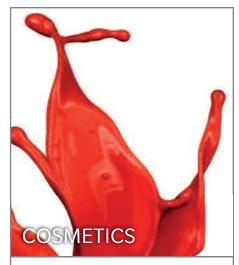
Corrugated Manufacturers Home Improvement Stores Wholesale Stores

CHEMICALS/ PETROCHEMICALS

Adhesives Automotive lubricants Automotive oils Car wash chemicals Coatings Detergents Disinfectants Dyes Floor wax Ink Multi-purpose cleaners Non-bleach additives Paints Petroleum Sanitizers Sealants Soaps Solvents Stains Strippers Swimming pool chemicals Thinners Varnishes

CUSTOMER BASE:

Chemical Contract Fillers Chemical Distributors Chemical Manufacturers Chemical Processing Plants Contractors Corrugated Manufacturers Home Improvement Stores Lubricant Companies Lubricant Contract Fillers Wholesale Stores



Cleansers Conditioner Creams Liquid makeup Lotions Shampoo Tanning lotion

CUSTOMER BASE:

Contract Filling & Co-packing Operations Corrugated Manufacturers Cosmetic Distributors Cosmetic Manufacturers Cosmetic Processing Plants Tanning Salons Wholesale Stores

FITMENT CONSIDERATIONS

- Do you need a tamper evident fitment?
- Are you using an aseptic filler?
- What is your product's viscosity?
- How will your product be dispensed?
- What is your current dispensing equipment?

IC-7002



IC-7004



IC-7005















IC-7022











FILLING EQUIPMENT

CDF assists customers in procuring the proper filling equipment; some of the options are listed on these pages.

SEMI-AUTOMATIC

The semi-automatic filler is a bag-in-box filler capable of filling a wide range of shelf stable or extended life products up to 25L. The filler has full CIP (clean in place) and SIP (sterilize in place) modes and can be steam sterilized.





FULLY-AUTOMATIC

The fully-automatic filler is a compact web-fed fully auto filling machine capable of filling a wide range of shelf stable or extended life products up to 25L. The filling head has been designed to give optimum fill quality without any spillage. The filling machine has full CIP (clean in place) and SIP (sterilize in place) modes and can be steam sterilized.



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