



C.L. Smith

UN Certifier
Distributor
Designer
Manufacturer

Your Partner in Packaging Solutions

• HAZPlus® • CL SMITH CONTAINER • LYONS BLOW MOLDING



MAKING YOUR LIFE EASIER

www.clsmith.com
800.264.1202

www.hazplus.com
866.596.6786



OUR CUSTOMER PROMISE

We Are All In For You!

Years of experience working with hundreds of companies like yours has taught us a very valuable lesson: **To meet a challenge you have to own it.** And what drives us as a company is the desire to do everything in our power to *Make Your Life Easier!*

Our Promise to You

WE ARE HERE TO FUNCTION AS AN EXTENSION OF YOUR BUSINESS; AND GIVE YOU MORE VALUE--NOT MORE TO MANAGE

WE WILL OFFER A WIDE RANGE OF PRODUCTS AND INNOVATIVE OPTIONS

WE WILL SHARE MARKET AND INDUSTRY INFORMATION TO KEEP YOU INFORMED

WE WILL OFFER COMPETITIVE PRICES THAT SAVE YOU MONEY;

WE WILL RESOLVE ISSUES QUICKLY AND TAKE ACCOUNTABILITY TO ENSURE YOUR SATISFACTION



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C.L. Smith

Your Partner in Packaging Solutions

C.L. SMITH is a full service Manufacturer, UN Certifier, Designer and Distributor of high quality, cost effective packaging materials and containers. We are an industry leader with **HAZPlus®**, our UN division of hazardous materials packaging, testing/certification and manufacturing; we design private molds and run a variety of stock bottles at **LYONS BLOW MOLDING**, our state-of-the art manufacturing facility; and we stock over 3,000 products through **C.L. SMITH CONTAINER**.


Manufacturer

- » Shorter Runs & Reduced Lead Times
- » Industry's Highest Quality Standards
- » Dedicated to Lean Manufacturing
- » New, Standardized, State-of-the Art Equipment
- » Customized Enhancements, Styles and Sustainable Options

Reliability



Certifier

- » On-site  Performance Oriented Package Testing Facility
- » Turn-Key Services: Design, Test, Certify and Manufacture
- » Experts Available to Come On-Site to Review Regulatory Changes and Updates With You
- » Custom Designs and Stock Packages Offered
- » Recertification Management Assures Proactive Compliance

Compliance



Designer

- » Exclusive Molds and Bottle Designs
- » Collaboration to Differentiate Your Product
- » 3D CAD Modeling and Rapid Prototyping
- » Quick Turnaround for Speed to Market

Distinctive



Distributor

- » Dedicated Personnel on Your Account
- » Buying Power Allows Competitive Pricing
- » Numerous Distribution Sites for Customer Stocking Programs
- » Just-In-Time Deliveries

Dependability



OUR DIFFERENCE

Our Difference: We exist for our customers!

Founded in 1975 by Clarence L. Smith, C.L. Smith is a privately held, family-owned packaging company with one simple mission: **We Exist for Our Customers.** Exceptional customer service is part of our fabric. From the beginning, our customer commitment went way beyond the norm...we made the decision to strive for excellence in every customer interaction; almost 40 years later that commitment is stronger than ever. The entire professional staff is dedicated to our single most important goal – satisfied customers! We will provide a customized solution, at the best price, with the highest quality.

Here , you'll always come first--and we'll do whatever it takes to fight for the right solution. Even if that means doing what no one else will.

— Making your — LIFE EASIER

- 100% Customer Focused
- Long Term Partnerships
- Flexible & Easy to Work With
- Committed to Quality
- Investing in Value-Add Services
- Always Competitively Priced
- Specialized Solutions:
 - » Custom Bottle Manufacturer
 - » UN Certifier
 - » Full-Line Distributor

OUR MARKETS

As a Manufacturer, UN Certifier and full line Container Distributor, and Laboratory Inspector & Tester we've been providing specialty packaging solutions for an ever broadening, quality conscious customer base for almost four decades.

Aerospace | Agricultural | Automotive | Battery & Electronics | Biotechnology | Chemicals (Industrial & Household)
 Construction | Contract fillers | Environmental | Food & flavorings | Healthcare | Home & Garden | Janitorial
 Sanitation | Paint & Coatings | Pharmaceutical | Personal Care | Petroleum & Oil | Pyrotechnics

OUR LOCATIONS

Our network of warehouse & distribution centers has over 3,000 containers and related packaging items in stock and carries millions worth of inventory. We offer customers stocking programs that save money on storage expenses and provide the convenience of just-in-time delivery.

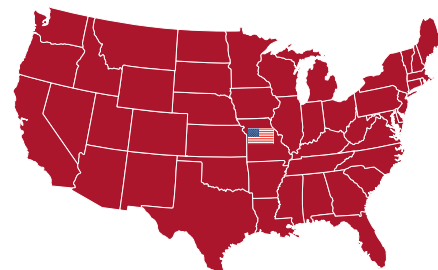


Distribution Centers

WAREHOUSE & DISTRIBUTION

- St. Louis, Missouri
- Anniston, Alabama
- Little Rock, Arkansas
- Chicago, Illinois
- Evansville, Indiana
- Indianapolis, Indiana
- Kansas City, Missouri
- Springfield, Missouri
- Memphis, Tennessee
- Nashville, Tennessee
- Dallas, Texas
- Freeport, Texas

SERVICING CUSTOMERS COAST-TO-COAST



MANUFACTURING PLANT 

PACKAGE TESTING LABORATORY
 • St. Louis, Missouri

CUSTOM BOTTLE MANUFACTURER... TURNING VISION INTO REALITY

We are a versatile and experienced blow molder of high density polyethylene bottles and containers ranging from .5 ounces to 2.5 gallons. For the past 25 years, we've become known for our reliability, flexibility and creativity. While we have hundreds of stock molds for commodity items in one to six cavity production, our specialty is private molds/custom designs to fit the unique needs of our customers.



Grounded in customer-focused Lean Methodologies, our Midwest (St. Louis) manufacturing facility uses rigorous performance testing methods to achieve the industry's high quality standards.

We have everything to Make Your Life Easier, and We Are All In For You!

BLOW MOLDING – POINTS OF DISTINCTION

EQUIPMENT

- » 14 Magic Machines
- » 300 point program
- » New, Standardized < 10yrs
 - » 2, 3, 4, 6 cavities
- » UN products technology

LEAN MANUFACTURING

- » Eliminate Process Waste
- » Kazien (Improvement)
- » SMED 42% c/o reduction
 - » 5S Principles
- » Value Stream Mapping

QUALITY

- » 1,2,4 hour checks
- » Infinity QS - SPC
- » Dimension/Capacity
- » Neck/Walls/Weights
- » Drop/Leak Test
- » Color/QC Audit

CUSTOM DESIGN

- » Distinctive Design Concepts
- » Renderings / 3-Dimensional
 - » Rapid Prototypes
- » COLORS/Pearl/Translucent/Textures
- » In - Mold Brand Embossing

MATERIALS

- » HDPE/LDPE/PP
- » Heavy Wall / Heavy Gram Bottles
 - » Anti-Stat
 - » ESCR
- » Stress Crack Resistance



SUSTAINABLE IDEAS

- » Lightweight
- » Biodegradable additive
- » Calcium Carbonate
- » Reduce Packaging
- » Returnable Packaging
- » PCR - 25, 50, 100%

VALUE ADDED SERVICES

- » Decoration / Labeling
- » Fluorination
- » Stocking Programs
- » View Stripe / Graduations
 - » Bundling
- » Owned Delivery / Company Drivers

UNITIZING/PACKAGING

- » Cartons & Closures
- » Pallet / Tray Pack
- » Returnable / Reshippers
- » Bulk box / Bulk Bag
 - » Gaylord
- » Multiple Stocking Locations

VISIT US AT:

www.clsmith.com | www.hazplus.com

OUR SOLUTIONS



HAZARDOUS MATERIALS PACKAGING...TOTAL COMPLIANCE

CONFIDENCE HAZPlus® is an industry leader in UN Certified packaging with our own staff of subject matter experts so we don't need to rely on third parties to stay abreast of UN regulations.; we design, test, certify **and** manufacture hazardous materials packaging for a one-stop, seamless experience in accordance with UN packaging standards. We have our own With over 15 years experience, our hazardous materials packaging specialists will help you develop an effective compliance protocol and give you peace of mind.

Hallmarks of HAZPlus®



Tin Can Packaging



Pail / Drum Packaging

4GV / Variation 2
Packaging**On-site UN Certified Package Testing**

Lab for performance testing and to certify compliance on stock and custom packaging. As a self-certified packaging manufacturer, **we accept responsibility** to assure that EACH package is capable of passing the prescribed test. 49 CFR 178.601 (b)

Abundance of **economical UN4G and 4GV stock packaging**, tested and ready to ship. Existing **custom-designed UN packs** available to meet more complex specifications.

Package documentation and closing

instructions provided with each configuration, along with pro-active re-certification and renewal process.

C.L. Smith's collective purchasing volume leveraged for best pricing on all inner components and single pack items.

Interactive Hazardous Materials Table (HMT) is safe and secure with "deep-links" to the CFR 49 DOT regulations. Safe Packaging Matters newsletter keeps you informed of Hazardous Materials Regulation (HMR) changes.



Plastic Packaging



Custom Packaging

Accessories / Labels /
Placecards

OUR SOLUTIONS



As a Distributor **and** a Manufacturer we purchase millions in supplier products which gives us the flexibility and negotiating muscle to design a very competitive pricing plan to meet your specific needs. **We will not be undersold!** We stock over 3,000 items across our network of warehouses which lowers your storage expenses and provide the convenience of just-in-time delivery.

- Plastic bottles, jars & tubs
- Labels/Sleeves/Silkscreen
- Glass bottles & jars
- Closures & sprayers
- Plastic and steel pails
- Poly and steel drums
- Heavy Duty / Heavy Gram Weight Specialty Bottles
- Fluorination Services
- Tin cans
- FIBC's (bulk bags)
- UN containers & packaging
- Plastic squeeze tubes
- Cartons/Recons/Fiber Drums
- Accessories & closing tools
- Custom molding & decorating
- Clamshells, blister packs and trays
- Injection molded parts
- Cartridges

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PLASTIC BOTTLES, JARS & TUBS



CAPS, CLOSURES, PUMPS & SPRAYERS



FLEXIBLE TUBES



CARTRIDGE SYSTEMS



INTERMEDIATE BULK



DRUMS



PAILS



METAL CANS



GLASS BOTTLES & JARS



SAFETY & SPILL CONTAINMENT



ACCESSORIES

BOSTON ROUND



Also Available

Size	.5 oz - 1 liter
Material*	HDPE, LDPE, PET
Neck Finish	15mm - 38mm
Color	Natural, White, Clear Custom Colors Available

* The majority of resins used meet the requirements of the FDA for food contact.

Boston Round

Part #	Size	Finish	Color	Material	Pack
09-3973	2 ounce	20-410	Clear	PET	Bulk
09-3974	2 ounce	20-410	Amber	PET	Bulk Box
09-6627	4 ounce	24-410	Natural	HDPE	Bulk Box
09-6393	8 ounce	24-410	Clear	PET	Bulk Box
09-3709	16 ounce	28-410	Clear	PET	Bulk Box
09-2901	32 ounce	28-410	Natural	HDPE	Bulk Box
09-2957	32 ounce	28-410	Clear	PET	Bulk Box

BULLET



Also Available

Size	.5 oz - 1 liter
Material*	HDPE, LDPE, PET
Neck Finish	18mm - 38mm
Color	Natural, White, Clear Custom Colors Available

* The majority of resins used meet the requirements of the FDA for food contact.

Bullet

Part #	Size	Finish	Color	Material	Pack
09-6195	4 ounce	24-410	White	HDPE	Bulk Box
09-6344	8 ounce	24-410	Clear	PET	Bulk Box
09-6199	8 ounce	24-410	Natural	HDPE	Bulk Box
09-4009	16 ounce	24-410	White	HDPE	Bulk Box
09-6347	16 ounce	24-410	Clear	PET	Bulk Box



Plastic Bottles Material Key

PET - Polyethylene Terephthalate	PP - Polypropylene
HDPE - High-density Polyethylene	PVC - Polyvinyl Chloride

CYLINDER

Cylinder					
Part #	Size	Finish	Color	Material	Pack
09-7006	1 ounce	20-410	White	HDPE	Bulk Box
09-6905	2 ounce	24-410	White	HDPE	Bulk Box
09-6550	4 ounce	24-410	Natural	HDPE	Bulk Box
09-6600	4 ounce	24-410	White	HDPE	Bulk Box
09-6200	8 ounce	24-410	Natural	HDPE	Bulk Box
09-6250	8 ounce	24-410	White	HDPE	Bulk Box
09-3525	16 ounce	28-410	Natural	HDPE	Bulk Box
09-3600	16 ounce	24-410	Natural	HDPE	Bulk Box
09-3650	16 ounce	24-410	White	HDPE	Bulk Box
09-3660	16 ounce	28-410	White	HDPE	Bulk Box
09-3300	24 ounce	28-400	Natural	HDPE	Bulk Box
09-2300	32 ounce	28-410	Natural	HDPE	Bulk Box
09-2350	32 ounce	28-410	White	HDPE	Bulk Box
09-1050	1 gallon (flat top)	38-400	Natural	HDPE	Bulk Box



Also Available	
Size	.5 oz - 1 liter
Material*	HDPE, LDPE, PET
Neck Finish	15mm - 38mm
Color	Natural, White, Clear Custom Colors Available

* The majority of resins used meet the requirements of the FDA for food contact.

**CUSTOM DESIGN
OPTIONS AVAILABLE**

It is always the buyer's responsibility to make the final decision as to whether any given container or closure is suitable or safe for use with the intended product(s). The buyer is cautioned to satisfy himself that all products purchased are compatible with the product being packaged.

**NEED ASSISTANCE?
CALL AN
EXPERT**

**CLS – 800-264-1202
HAZ – 866-596-6786**

See page 61 for **California new Rigid Plastics Packaging Container (RPPC)** criteria.

DECANTER



Also Available	
Base Shape	Round, Square
Size	8oz, 16oz, 24oz, 32oz, 1ltr
Material*	HDPE, PVC, PET
Neck Style	Ring Neck, Diamond Neck, Long Neck, Square Neck
Neck Finish	28mm, 38mm, Ratchet, Non-Ratchet
Color	Natural, White, Clear, Blue/White Custom Colors Available

* The majority of resins used meet the requirements of the FDA for food contact.

Decanter						
Part #	Size	Finish	Neck Style	Color	Material	Pack
09-4288	12 ounce	38-400	Long Neck	Clear	PET	Bulk Box
09-2801	16 ounce	38-400	Diamond	Natural	HDPE	Bulk Box
09-2988	16 ounce	28-410	Ring	Clear	PET	Bulk Box
09-3800	16 ounce	28-400	Diamond	Natural	HDPE	Bulk Box
09-2050	32 ounce	28-400	Diamond	Natural	HDPE	Bulk Box
09-2100	32 ounce	28-400	Diamond	Blue/White	HDPE	Bulk Box
09-2200	32 ounce	28-410	Diamond	Natural	HDPE	Bulk Box
09-2250	32 ounce	28-410	Diamond	Blue/White	HDPE	Bulk Box
09-2361	32 ounce	28-410	Ring (Ratchet)	Blue/White	HDPE	Bulk Box
09-2419	32 ounce	28-400	Ring	White	HDPE	Bulk Box
09-2752	32 ounce	28-400	Ring	Natural	HDPE	12-In
09-3349	32 ounce	28-410	Ring	Clear	PET	Bulk Box
09-3032	32 ounce	38-400	Square	Blue	HDPE	Tray Pack

DOSING AND DISPENSING



Also Available	
Size	4 oz - 1gallon
Material*	HDPE
Neck Finish	24mm - 38mm
Color	Natural

* The majority of resins used meet the requirements of the FDA for food contact.

Dosing and Dispensing					
Part #	Size	Finish	Color	Material	Pack
09-2382	16 ounce	3oz chamber; 28-400 Fill; 28-400 Pour	Natural	HDPE	Bulk Box
09-2343	32 ounce	28-410	Natural	HDPE	Bulk Box
09-3619	64 ounce	4oz chamber; 33-400 Fill; 33-400 Pour	Natural	HDPE	Bulk Box
09-2384*	1 gallon	6oz chamber; 33-400 Fill; 33-400 Pour	Natural	HDPE	Bulk Box

* Cap applied

Plastic Bottles Material Key	
PET - Polyethylene Terephthalate	PP - Polypropylene
HDPE - High-density Polyethylene	PVC - Polyvinyl Chloride

F-STYLE (STRAIGHT)

F-Style (straight)					
Part #	Size	Finish	Color	Material	Pack
09-6372	8 ounce	28-400	White	HDPE	Bulk Box
09-3110	32 ounce	33-400	White	HDPE	Bulk Box
09-1739	64 ounce	38-400	White	HDPE with 25% PCR	Bulk Box
09-1833	160 ounce	110-400	Clear	PVC	Bulk Box
09-1036	1 gallon	38-400	White	HDPE	Bulk Box
09-5560	1 gallon	38-400	Black	HDPE	Tray
09-5502	4 liter	38-400	Natural	HDPE	Bulk Box
09-5506	4 liter	38-400	Blue/White	HDPE	Bulk Box
09-5507	4 liter	38-400	Blue/White	HDPE	6-In
09-5525	4 liter	38-400	White	HDPE	Tray
09-7599	2.5 gallon	63-485	Natural	HDPE	Tray
09-7621	2.5 gallon	63-485	White	HDPE	2-In
09-7396	10 liter	38-400	Natural	HDPE	Tray



Also Available	
Size	4 oz - 2.5 gallon
Material*	HDPE, PVC, PET
Neck Finish	24mm - 110mm
Color	Natural, White, Clear Custom Colors Available

* The majority of resins used meet the requirements of the FDA for food contact.

F-STYLE (SLANT)

F-Style (slant)					
Part #	Size	Finish	Color	Material	Pack
09-1763	1 gallon	63-485	Natural	HDPE	Bulk Box
09-1778	1 gallon	63-400	Natural	HDPE	4-In
09-1791	1 gallon	63-485	Blue	HDPE	4-In
09-1973	1 gallon	38-400	Black	HDPE	Bulk Box
09-1976	1 gallon	63-485	Black	HDPE	Bulk Box
09-1908	4 liter	63-485	Natural	HDPE	4-In



Also Available	
Size	32 oz - 2.5 gallon
Material*	HDPE, PVC, PET
Neck Finish	24mm - 110mm
Color	Natural, White, Clear Custom Colors Available

* The majority of resins used meet the requirements of the FDA for food contact.

Need **HEAVY DUTY BOTTLES**
for Hard to hold products? See page 55.

INDUSTRIAL ROUND



Also Available	
Size	32oz, 64oz, 1gal, 4ltr, 5ltr
Material*	HDPE
Neck Finish	28mm, 33mm, 38mm, Tamper Evident, Snap-Cap
Color	Natural, White, Blue/White Custom Colors Available

* The majority of resins used meet the requirements of the FDA for food contact.

Industrial Round						
Part #	Size	Finish	Color	Material	Pack	Gram Weight
09-1750	64 ounce	38-400	Natural	HDPE	Bulk Box	70
09-1000	1 gallon	38-400	Natural	HDPE	Bulk Box	120
09-1002	1 gallon	38-400	Natural	HDPE	6-In	120
09-1032	1 gallon	38mm TE**	Amber	HDPE	Bulk Box	120
09-1081	1 gallon	38-400	Natural	HDPE	4-In	110
09-1090	1 gallon	38-400 NBO***	White	HDPE	Tray	120
09-1150	1 gallon	38-400	Natural	HDPE	Tray	120
09-1200	1 gallon	38-400	Blue/White	HDPE	Bulk Box	120
09-1201	1 gallon	38-400	Blue/White	HDPE	4-In	120
09-1215	1 gallon	38-400 NBO***	White	HDPE	Bulk Box	130
09-1237	1 gallon	38-400	White	HDPE	4-In	120
09-9820	1 gallon	38mm TE**	Natural	HDPE	Bulk Box	150
09-9868	1 gallon	38-400	White	HDPE with 25% PCR	4-In	120
09-9877	1 gallon	38-400	Natural	HDPE with 25% PCR	4-In	120
09-1153	1 gallon	38-400	Natural	HDPE with 25% PCR	Tray	150
09-9898	1 gallon	38-400	Natural	HDPE	4-In UN4G/Y25.8/S	150
09-9893	4 liter	38-400	Natural	HDPE	Bulk Box	150
09-9895	4 liter	38-400	Blue/White	HDPE	Bulk Box	150
09-9989	4 liter	38mm TE**/ Hoffer Neck	Blue/White	HDPE with 25% PCR	Bulk Box	130
09-9999	4 liter	38mm TE**/ Hoffer Neck	Natural	HDPE	4-In	135

TE = Tamper Evident *Non Back-off

INDUSTRIAL SQUARE



Also Available	
Size	1gal, 4ltr
Material*	HDPE
Neck Finish	38mm - 48mm, Tamper Evident
Color	Natural, White, Blue/White Custom Colors Available

* The majority of resins used meet the requirements of the FDA for food contact.

Industrial Square					
Part #	Size	Finish	Color	Material	Pack
09-9865	1 gallon	38-400	Natural	HDPE	Bulk Palletized
09-9870	4 liter	38-400	Natural	HDPE	Bulk Box
09-9875	4 liter	38-400	White	HDPE with 25% PCR	Bulk Palletized
09-1268	1 gallon (dairy bottle)	38-400 NEPCO Finish	Natural	HDPE	Bulk Bag

Plastic Bottles Material Key	
PET - Polyethylene Terephthalate	PP - Polypropylene
HDPE - High-density Polyethylene	PVC - Polyvinyl Chloride

MODERN ROUND

Modern Round

Part #	Size	Finish	Color	Material	Pack
09-6400	8 ounce	28-410	Natural	HDPE	Bulk Box
09-6302	8 ounce	24-410	White	PET	Bulk Box
09-3760	16 ounce	28-410	Natural	HDPE	Bulk Box
09-3762	16 ounce	28-410	Blue/White	HDPE	Bulk Box
09-3780	16 ounce	28-410	White	HDPE	Bulk Box
09-2950	32 ounce	28-410	Natural	HDPE	Bulk Box

We **fluorinate bottles for barrier enhancements**. See Resource Section, page 55.



Also Available

Size	1oz - 1ltr
Material*	HDPE, LDPE, PET, Nylene
Neck Finish	20mm - 43mm
Color	Natural, White, Clear Amber Custom Colors Available

* The majority of resins used meet the requirements of the FDA for food contact.

OVAL

Oval

Part #	Size	Finish	Color	Material	Style	Pack
09-3985	2 ounce	20-410	Clear	PVC	Ribbed	Bulk Box
09-6581	4 ounce	20-410	Clear	PVC	Ribbed	Bulk Box
09-6110	8 ounce	24-410	Clear	PVC	Ribbed	Bulk Box
09-4978	8 ounce	24-415	White	LDPE	Ribbed	Bulk Box
09-4495	16 ounce	24-410	Clear	PVC	Ribbed	Bulk Box

Total, turn-key, package design capabilities.



Also Available

Size	.5oz - 160oz
Material*	HDPE, PET, PVC
Neck Finish	15mm - 100mm
Color	Natural, White, Clear Custom Colors Available

* The majority of resins used meet the requirements of the FDA for food contact.

SPRAYER



Also Available	
Size	8oz - 32oz
Material*	HDPE, PET
Neck Finish	28mm, 28mm Ratchet
Color	Natural, White, Clear Custom Colors Available

* The majority of resins used meet the requirements of the FDA for food contact.

Sprayer

Part #	Size	Finish	Color	Material	Pack
09-4096	12 ounce	28-400 Ratchet*	White	HDPE	Bulk Box
09-4101	16 ounce	28-400 Ratchet*	White	HDPE	Bulk Box
09-4010	16 ounce	28-400 Ratchet*	Natural	HDPE	Bulk Box
09-3343	22 ounce	28-400 Ratchet	Clear	PET	Bulk Box
09-3374	24 ounce	28-400 Ratchet	White	HDPE	Bulk Box
09-9123	24 ounce	28-400 Non Ratchet	White	HDPE	Bulk Box
09-2553	32 ounce	28-400 Non Ratchet	White	HDPE with 25% PCR	Bulk Box
09-3322	32 ounce	28-400 Ratchet*	White	HDPE	Bulk Box

* Also available in non ratchet

WIDEMOUTH BOTTLE / JAR



Also Available	
Size	.25oz - 2gl
Material*	HDPE, PET, PP
Neck Finish	33mm - 110mm
Color	Natural, White, Clear Custom Colors Available

* The majority of resins used meet the requirements of the FDA for food contact.

Widemouth Bottle / Jar

Part #	Size	Finish	Color	Material	Pack
09-6867	2 ounce	58-400	White	PP	Bulk Box
09-6725	4 ounce	58-400	White	PP	Bulk Box
09-6730	4 ounce	58-400	Black	PP	Bulk Box
09-6752	4 ounce	70-400	Natural	PP	Bulk Box
09-4150	16 ounce	89-400	White	HDPE	Bulk Box
09-4160	16 ounce	89-400	Natural	HDPE	Bulk Box
09-2850	32 ounce	89-400	White	HDPE	Bulk Box
09-2852	32 ounce	89-400	Natural	HDPE with 25% PCR	Bulk Box
09-3100	32 ounce	120-400	White	PP	Bulk Box
09-3152*	32 ounce	89-400	Natural	HDPE	Bulk Box
09-2032	40 ounce	100-400	White	HDPE	Bulk Box
09-1640	1 gallon	110-400	Natural	HDPE	Bulk Box
09-1650	1 gallon	110-400	Natural	HDPE	4-In
09-1262	1 gallon	100-400	Natural	HDPE	Bulk Box

* Style of 09-3152 is square, all others are round

Plastic Bottles Material Key	
PET - Polyethylene Terephthalate	PP - Polypropylene
HDPE - High-density Polyethylene	PVC - Polyvinyl Chloride

PACKER

Packer					
Part #	Size	Finish	Color	Material	Pack
09-4460	30 cc	33-400	Natural	PET	Bulk Box
09-4475	60 cc	33-400	Natural	HDPE	Bulk Box
09-4660	100 cc	38-400	Natural	HDPE	Bulk Box
09-4671	120 cc	38-400	Clear	PET	Bulk Box
09-4670	120 cc	38-400	Natural	HDPE	Bulk Box
09-4674	120 cc	38-400	White	HDPE	Bulk Box
09-4860	8 ounce	45-400	White	HDPE	Bulk Box
09-4979	8 ounce	45-400	Grey	HDPE	Bulk Box
09-4914	300 cc	45-400	Clear	PET	Bulk Box
09-4052	950 cc	53-400	Natural	HDPE	Bulk Box
09-1861	2000 cc	100-400	White	HDPE	Bulk Box



Also Available

Size	30cc - 3000cc
Material*	HDPE, PET
Neck Finish	33mm - 110mm
Color	Natural, White, Clear Custom Colors Available
Shape	Round or Square, Smooth or Label Panel

* The majority of resins used meet the requirements of the FDA for food contact.

POWDER JAR

Powder Jar					
Part #	Size	Finish	Color	Material	Pack
09-4153	16 ounce	63-485	White	HDPE	Bulk Box
09-4228	18 ounce	63-485	White	HDPE	Bulk Box
09-4981	610 cc	63-400	White	HDPE	Bulk Box
09-2389	32 ounce	63-400	White	HDPE	Bulk Box

Stock boxes for
plastic bottles
are available.



Also Available

Size	3oz - 32oz
Material*	HDPE
Neck Finish	38mm - 63mm
Color	Natural, White Custom Colors Available

* The majority of resins used meet the requirements of the FDA for food contact.

WIDEMOUTH LAB WARE



Also Available	
Size	4oz - 1 gal
Material	LDPE, HDPE, PP
Neck Finish	24-63mm
Color	Natural, Amber, White

Widemouth Lab Ware					
Part #	Size	Finish	Color	Material	Pack
09-5212*	4 ounce/120 ml	38-400	Amber	HDPE	Bulk Box
09-4960*	4 ounce/120 ml	38-415	Natural	HDPE	Bulk Box
09-4800*	8 ounce/250 ml	45mm	Natural	HDPE	Bulk Box
09-5814*	8 ounce/250 ml	45-400	Amber	HDPE	Bulk Box
09-5801*	8 ounce/250 ml	24-415	Amber	HDPE	Bulk Box
09-5810*	8 ounce/250 ml	43-415	Natural	HDPE	Bulk Box
09-4964*	16 ounce/500 ml	53 mm	Natural	HDPE	Bulk Box
09-4966*	16 ounce/500 ml	53 mm	Amber	HDPE	Bulk Box
09-4968*	32 ounce/1000 ml	53 mm	Natural	HDPE	Bulk Box
09-4970*	32 ounce/1000 ml	63-415	Natural	HDPE	Bulk Box

* Cap Attached

 We stock a complete line of UN tested & certified, labware bottle packs.

SPICE BOTTLE / JAR



Spice Bottle / Jar					
Part #	Size	Finish	Color	Material	Pack
09-6182	3.5 ounce	43-485	Natural	PP	Bulk Box
09-6732	8.4 ounce	53-485	Clear	CO-PET	Bulk Box
09-5975	8.5 ounce	53-485	Natural	PP	Bulk Box
09-4231	16 ounce	63-485	Natural	PET	Bulk Box
09-2385	32 ounce	63-400	Clear	PET	Bulk Box

DON'T SEE WHAT YOU'RE LOOKING FOR?
- CALL US TO DISCUSS YOUR PROJECT! -

Plastic Bottles Material Key	
PET - Polyethylene Terephthalate	PP - Polypropylene
HDPE - High-density Polyethylene	PVC - Polyvinyl Chloride

TUB & LID

Tub & Lid					
Type	Part #	Size	Handle	Color	Material
8 ounce					
Tub	09-7082	8 ounce	No Handle	Natural	PP
Tub	09-7202	8 ounce	No Handl	White	PP
Snap On Lid	09-7207	8 ounce	n/a	Natural	PE
Snap On Lid	09-7300	8-50 ounce	n/a	White	PP
16 ounce					
Tub	09-7313	16 ounce	No Handle	White	PE
Snap On Lid	09-7048	16 ounce	n/a	Natural	Copoly PP
Pry Off Lid	09-7282	16 ounce	n/a	White	PE
Snap On Lid	09-7042	16 ounce	n/a	Natural	PP
32 ounce					
Tub	09-7275	32 ounce	No Handle	Natural	Copoly PP
Tub	09-7276	32 ounce	No Handle	White	PE
Tub	09-7285	32 ounce	No Handle	White	PE
Lid	09-7106	32 ounce	n/a	White	PP
Recessed Lid	09-7101	32 ounce	n/a	Natural	PE
37 ounce					
Vapor Lock Tub	09-7278	37 ounce	No Handle	Natural	PE
Snap On Lid	09-7279	37 ounce	n/a	Natural	PE
48 - 85 ounce					
Tub	09-8404	48 - 52 ounce	No Handle	White	Copoly PP
Tub	09-7131	64 ounce	No Handle	White	PE
Tub	09-7150	85 ounce	No Handle	White	PP
Tub	09-7250	85 ounce	86 ounce	White	PP
Snap On Lid	09-7138	48 - 85 ounce	n/a	White	PP
Snap On Lid	09-7137	48 - 85 ounce	n/a	Natural	PP
Snap On Lid	09-7256	48 - 85 ounce	n/a	Natural	PE
Double Seal Lid	09-7165	64 - 85 ounce	n/a	White	PP
86 ounce					
Tub	09-7152	86 ounce	No Handle	White	PP
Snap On Lid	09-7200	86 ounce	n/a	White	PP
130 ounce					
Tub	09-7351	130 ounce	Plastic Handle	White	PE
Tub	09-7352	130 ounce	No Handle	White	PE
Tub	07-1060	130 ounce	Plastic Handle	Natural	
Snap On Lid	09-1065	130 ounce	n/a	Natural	PE
170 ounce					
Tub	09-7320	170 ounce	No Handle	White	PE
Snap On Lid	09-7325	170 ounce	n/a	White	PP
195 ounce					
Tub	09-7322	195 ounce	Wire handle	White	LDPE
Plain Lid	09-1253	195 ounce	n/a	White	LDPE



Also Available	
Size	4oz -3gl
Material	HDPE, PP, Co-Polymer
Lid Option	Recessed, Flat, Snap-on or Pry-off
Color	Natural, White Custom Colors Available
Styles	Round, Square, Rectangular
Handle Options	No Handle, Metal, Plastic

CUSTOM PRINTING AND SEASONAL DESIGNS AVAILABLE,
LEAD TIMES AND MINIMUMS APPLY.

NEED ASSISTANCE?
**CALL AN
EXPERT**

CLS —800-264-1202
HAZ — 866-596-6786

CHILD RESISTANT CLOSURE - PUSH DOWN & TURN



Also Available

Neck Finish 18mm - 53mm

Material PP

Color White, Black
Custom Colors AvailableOutside
Texture
Options RibbedLiner
Options Foam, Heat Seal,
Pressure Sensitive,
Pulp Vinyl, Others

Child Resistant Closure - Push Down & Turn

Part #	Finish	Texture	Color	Liner
11-2400	28-400	Ribbed	White	Foam
11-2450	28-400	Ribbed	White	Heatseal for HDPE
11-4109	38-400	Ribbed	White	Heatseal for HDPE
11-4600	38-400	Ribbed	White	F-217
11-4618	38-400	Ribbed	White	F-217 and PS-22
11-1168	20-400	Ribbed	Black	Heatseal For PVC
11-2152	24-400	Ribbed	Black	Heatseal For PET
11-2164	24-400	Ribbed	White	Heatseal For HDPE
11-4111	38-400	Ribbed	White	F-217 vented random pin holes
11-4601	38-400	Ribbed	White	PV

Child Resistant Calibrated Dropper

Part #	Finish	Texture	Color	Bulb Type	Diameter & Length
11-9118	28-400	Ribbed	White	White Bulb	7x76mm

PRESSURE SENSITIVE AND HEAT SEAL
AVAILABLE IN PLAIN AND PRINTED
CHILD RESISTANT CLOSURES

SHORT ON SPACE?

- WE OFFER CUSTOMER STOCKING PROGRAMS -

*We provide samples for testing, however, we are not liable
for any claims, lawsuits, damages or losses.*

Custom colors, styles and liners available lead times and minimums.

*See page 58 for **Neck Finish Dimensions***

CONTINUOUS THREAD CLOSURE

Continuous Thread Closure

Part #	Finish	Texture	Color	Liner
11-1981	24-410	Ribbed	White	Heatseal Lined For HDPE
11-2160	24-400	Ribbed	White	Foam Lined
11-1850	24-410	Ribbed	White	Foam Lined
11-2700	28-400	Ribbed	White	Foam Lined
11-3510	28-400	Ribbed	White	F-217 & PS-22 Lined
11-3500	28-410	Ribbed	White	F-217 & PS-22 Lined
11-3550	28-410	Ribbed	White	Foam Lined
11-3854	33-400	Ribbed	White	Foam Lined
11-4106	38-400	Ribbed	White	Vented Pulp/PE Lined
11-4200	38-400	Ribbed	White	F-217 Lined
11-4233	38-400 NBO*	Ribbed	White	Heatseal Lined For HDPE
11-4410	38-400	Ribbed	White	Heatseal Lined For HDPE
11-4450	38-400	Ribbed	White	F-217 & PS-22 Lined
11-4611	38-400	Ribbed	Black	PS-22 Lined
11-5743	58-400	Ribbed	White	F-217 Foam
11-6425	63-485	Ribbed	White	Foam Lined
11-6478	70-400	Ribbed	White	Unlined
11-6493	70-400	Ribbed	White	PV Lined
11-7050	89-400	Ribbed	White	F-217 Lined
11-7088	89-400	Ribbed	White	Heatseal Lined For PP
11-7126	100-400	Ribbed	White	F-217 Lined
11-7177	110-400	Ribbed	White	Unlined
11-7205	120-400	Ribbed	White	Foam Lined

*NBO = Non-back off neck finish



Also Available

Neck Finish	13mm - 120mm
Material	PP
Color	White, Black Custom Colors Available
Outside Texture Options	Smooth Wall, Fine Ribbed
Liner Options	Foam, Heat Seal, Pressure Sensitive, Pulp Vinyl, Various

TAMPER EVIDENT CAP

Tamper Evident Cap

Part #	Finish	Texture	Color	Liner	Orifice/Features
11-2710	28-400	Smooth	White	Beverage	Break Away
11-4230	38-400	Ribbed	White	Foam	Break Away
11-5055	38-400	Smooth	White	Unlined	Tear Tab
11-5083	38-400	Ribbed	White	Unlined	Tear Tab

Ask us about wet seals and heat shrink seals for other TE methods.



Also Available

Neck Finish	18mm - 70mm
Material	PP
Color	White, Black Custom Colors Available
Outside Texture Options	Ribbed, Smooth
Liner Options	Hot Fill, Ambient Fill, Linerless, Lined

BLACK PHENOLIC CAP



Also Available

Neck Finish	13mm - 89mm
Material	Phenolic
Color	Black, Green, White
Outside Texture	Ribbed or Smooth
Liner Options	Cone Lined, Lined

Black Phenolic Cap

Part #	Finish	Texture	Color	Liner
11-0950	18-400	Smooth	Black	Cone Lined
11-1050	20-400	Ribbed	Black	Cone Lined
11-1250	22-400	Smooth	Black	Cone Lined
11-1350	24-400	Smooth	Black	Cone Lined
11-2650	28-400	Ribbed	Black	Cone Lined
11-3950	33-400	Ribbed	Black	Cone Lined
11-4350	38-400	Smooth	Black	Cone Lined
11-5300	43-400	Smooth	Black	Disc Lined
11-5810	58-400	Smooth	Black	PVLF Lined
11-7100	89-400	Smooth	Black	PVLF Lined
11-5632	53-400	Smooth	Black	P/RVTLF Lined
11-7110	89-400	Smooth	Black	Disc Lined PE

DISC TOP / FLIP TOP / SNAP TOP



Also Available

Neck Finish	20mm -70mm
Material	PP
Color	White, Black Custom Colors Available
Outside Texture	Smooth Wall, Fine Ribbed
Liner Options	Linerless, Heat Seal, Pressure Sensitive, Clean Peel, Lift N Peel
Orifice Options	Various Options Available

Disc Top / Flip Top / Snap Top

Part #	Style	Finish	Texture	Color	Liner	Orifice/Features
11-1702	Flip Top	24-410	Ribbed	White	Unlined	4mm Orifice
11-1733	Disc Top	24-410	Ribbed	White	Unlined	.310mm Orifice
11-2800	Flip Top	28-400	Ribbed	White	Unlined	3mm Orifice
11-3486	Snap Top	28-410	Ribbed	White	Lined	.125mm Orifice
11-3800	Flip Top	28-410	Ribbed	White	Unlined	3X6mm Orifice

STARTING A NEW PROJECT?

- CALL US FOR IDEAS! -

SHAKER & SPICE

Shaker & Spice

Part #	Style	Finish	Texture	Color	Liner	Orifice/Features
11-5719	Shaker-Spoon	53-485	Smooth	Black	Heatseal For PET	.300mm Orifice
11-6351	Shaker-Spoon	63-485	Smooth	White	Pressure Sensitive	.300mm Orifice
11-6444	Shaker-Spoon	63-400	Smooth	Black	Heatseal For PETG	.300mm Orifice
11-7052	Shaker-Spoon	89-400	Smooth	Black	Universal Heatseal	Dual Door Spoon Tear

Caplugs, Sifter Fitments, Orifice Reducers

- Wide variety of specialty products available
- Caplugs add security for major parcel carriers
- Sifter fitments to shake powders or spices
- Orifice reducers to dispense a stream in various sizes



Also Available

Neck Finish	38mm - 120mm
Material	PP
Color	Custom Colors Available
Liner Options	Heat Seal, P22

DISPENSING CLOSURE

Dispensing Closure

Part #	Style	Finish	Texture	Color	Liner	Orifice/Features
11-1400	Yorker Spout	24-400	Ribbed	Natural	Unlined	.030 Hole & Red Tip
11-1450	Yorker Spout	24-400	Ribbed	Natural	Unlined	No Hole Short Red Tip
11-2331	Yorker Spout	24-400	Ribbed	Natural	Unlined	No Hole Long White Tip
11-2339	Yorker Spout	28-410	Ribbed	Natural	Unlined	No Hole Long Red Tip
11-2340	Yorker Spout	28-400	Ribbed	Natural	Unlined	.030 Hole Short Red Tip
11-2354	Yorker Spout	28-400	Ribbed	Natural	Lined	No Hole Long White Tip
11-5103	Yorker Spout	38-400	Ribbed	Natural	Unlined	No Hole Short Red Tip

Next day shipment from stock.



Also Available

Neck Finish	15mm - 38mm
Material	PP
Color	Natural, White Custom Colors Available
Outside Texture Options	Ribbed, Smooth
Liner Options	Foam, Heat Seal, Pressure Sensitive, Gasket
Orifice Options	No Hole, 0.03, 0.09, Ribbon, 0.115

FINGERTIP SPRAY PUMP



Also Available

Neck Finish	13mm - 28mm
Ratchet Options	24mm only
Color	White, Black Custom Colors Available
Outside Texture Options	Smooth, Ribbed, Frost, with and without Overcaps
Output	Various

Fingertip Spray Pump

Part #	Model	Finish	Diptube	Color	Lined	Output
11-2302	Regular Spray	24-410	5-15/16"	White	Yes	75cc
11-2303	Fine Mist	24-410	6.25"	White	Yes	140cc
11-1215	Fine Mist	20-410	2.88"	White	Yes	.18cc
11-2346	Regular Spray	28-410	7-7/16"	White	Yes	750cc

Stock items change and we bring in new items every week.

TRIGGER SPRAYER



Also Available

Neck Finish	28mm, 38mm, 45mm
Options	28mm Ratchet, Child Resistant, Hose End, Remote Sprayer
Color	White, Black Custom Colors Available
Output	Various

Trigger Sprayer

Part #	Model	Finish	Diptube	Color	Output/Features
11-3100	GB100	28-400	9-1/4"	Blue/White	1.0cc Shipper Sprayer
11-3150	GB100	28-400	9-1/4"	Red/White	1.0cc Shipper Sprayer
11-3175	GB100	28-400	9-1/4"	White/White	1.0cc Shipper Sprayer
11-3450	GB3001	28-400	9-1/4"	Blue/White	3cc Shipper Sprayer
11-3494		28-400	9.84"	Red/White	1.33cc Spray/Stream

NEED ASSISTANCE?
CALL AN
EXPERT

CLS – 800-264-1202

HAZ – 866-596-6786

LOTION PUMP / CONDIMENT / INDUSTRIAL

Lotion Pump / Condiment / Industrial

Part #	Neck	Diptube	Color	Lined	Output
11-3475	38-400	11-1/4"	White	No	1 ounce
11-3039	28-410	5.44"	White	No	2cc
11-3072	24-410	4-11/16"	White	No	1cc

Strategic warehouse locations throughout **Midwest** and **Southwest**.



Also Available

Neck Finish	13mm - 28mm
Neck Style	Continuous Thread, Snap On
Color	White, Black Custom Colors Available
Output	Various

METAL CLOSURE

Metal Closure

Part #	Finish	Texture	Color	Liner
11-5400	48-400	Ribbed	White	PV Lined
11-5401	48-400	Ribbed	White	Poly Lined
11-5900	58-400	Ribbed	White	PV Lined
11-5925	58-400	Ribbed	White	Pulp and Foil Lined
11-6000	58-400	Ribbed	White	Plastisol Lined
11-6500	70-400	Ribbed	White	PV Lined
11-6700	70-G-450	Ribbed	White	PV Lined
11-6750	70-G-450	Ribbed	White	Plastisol Lined
11-6900	89-400	Ribbed	White	PV Lined
11-5500	45-400	Ribbed	Gold	Plastisol Lined
11-4700	38-400	Ribbed	White	PV Lined



Also Available

Size	15mm - 120mm
Ratchet Options	Tinplate, Steel, Aluminum
Color	Gold, White, Plain, Lithoed and Embossing available on some
Material for Lug	Aluminum, Tinplated Steel

DISPENSING FAUCET



Dispensing Faucet

Part #	Model	Color	Description
06-2900	FLO-RITE	Natural	3/4 Thread
06-2950	FLOKING	Gold	2" Thread
06-3025	Quick Serv Tap	Natural	3/4 Thread
06-3050	Quick Serv Tap	Natural	38mm

See **Accessories** section for a complete list of stocked dispensing options.

BRUSH / DAUBER CAP



Brush / Dauber Caps Options

We have an extensive line of applicators such as brushes, daubers and rods for any liquid solution, including glue, paint, medicines, cosmetics and more, for the automotive, pharmaceutical, cosmetic, and dental industries, to name a few.

*It is always the **buyer's responsibility** to make the final decision as to whether any given container or closure is suitable or safe for use with the intended product(s). The buyer is cautioned to satisfy himself that all products purchased are compatible with the product being packaged.*

FLEXIBLE TUBE

Flexible Tube					
Sizes	Volume/ Capacity	Material	Color	Head Finishes	Tube Caps
.05" – 2.375" diameter	0.125 – 13.5 fl oz	HDPE, LDPE, PP, Co-Extruded, Multi-layers.	Natural, White, Custom Colors	Options include: Plain stand-up, Screw on or snap on, Snip Tip, Lube Nozzle, Twist-off, and custom designs.	Ribbed or Smooth, Spout & Center Dispenser, Child Resistant, Caulk Tip, Valve tip, plus many more.



Flexible Tube Options

Tubes are available in various sizes, capacities, materials, colors and finishes to hold nearly any product for retail and brand distinction. Complete the package with bold graphics printed with off-set, silk screen or gold stamping, on attractive surfaces such as pearlescent and metallic tubes.

CARTRIDGE SYSTEM

Cartridge System					
Weight	Volume/ Capacity	Material	Color	Wall Thickness	Nozzles & Plungers
39 – 96 Grams	9.8oz, 10.5oz, 30oz	HPDE & Polyamide (Nylon)	Natural, White, Custom Colors	.047", .055", .083"	Various styles and sizes.



Cartridge System Options

Cartridges, plungers systems and nozzles are engineered to fit together perfectly for air-free filling, and for emptying the cartridge dispensing without leaving any minimal leakage and residue on the cartridge walls. Cartridges designed for a wide range of sealing compounds, adhesives containing volatile substances, as well as plastic and permanently elastic sealing compounds.

INTERMEDIATE BULK CONTAINER



Also Available

Size	220gl, 275gl, 330gl, 550gl
Pallet Type	Wood, Metal, Plastic
Material	HDPE, UV Inhibitor, Stainless Steel
Inner Container/ Cage	New, Reconditioned, Combination, Remanufactured
Color	Natural
Top Openings	6" or 9"
Valve Options	Camlock or Standard, Typically 2" in size.
UN Rated	Available

Intermediate Bulk Container

Part #	Size	Pallet	Top Opening	Valve	Type	UN Rating
03-1451	275 gallon	Metal	6"	2" Ball	New	31HA1/Y/3800kg/2038kg 1041L/100kpa
03-1677	275 gallon	Metal	6"	2" Ball With Camlock	Remanufactured	31HA1/Y/2360kg/1311kg 1041L/41kpa
03-1679	275 gallon	Metal	9"	2" Ball With Camlock	Remanufactured	31HA1/Y/2360kg/1311kg 1041L/41kpa
03-1684	275 gallon	Metal	6"	2" NPT	Reconditioned	31HA1/Y/3800kg/2044kg 1250L/80kpa
03-1507	330 gallon	Steel	6"	2" Ball With Camlock	New	UN 31HA1/Y/*/ USA/M****/3722/2068 Max Gross Mass: 2068 kg Rated Capacity: 1249 L Gauge Test Pressure: 70 kPa Stack Test Load: 3722 kg
03-1528	330 gallon	Steel	6"	2" Ball With Camlock	Remanufacture	UN 31HA1/Y/*/ USA/M****/4649/2413 Max Gross Mass: 2413 kg Rated Capacity: 1249 L Gauge Test Pressure: 69 kPa Stack Test Load: 4649 kg

We carry **new, remanufactured and reconditioned IBCs** with different pallet options...all UN tested and approved.

FLEXIBLE INTERMEDIATE BULK CONTAINER



Flexible Intermediate Bulk Container

Part #	Size	Style	Weight	UN Rated	Filled Capacity
98-6004	36 X 36 X 50	Super-Sack	4000#	NO	44 cuft.
98-6014	36 X 36 X 36	Super-Sack	2205#	YES	30 cuft.
98-6019	35.6 X 35.6 X 50	Super-Sack	2205#	NO	44 cuft.
98-6020	43 X 43 X 60	Super-Sack	2205#	NO	78 cuft.
98-6027	36 X 36 X 46	Super-Sack	2205#	NO	40 cuft.
98-1104	37 X 35 X 133	Poly Liner	3 MIL	NO	Fits bulk bag 36x36x50"

NEW STEEL DRUM - CLOSEDHEAD



Also Available

Size	15 gallon - 85 gallon salvage
Style	Tighthead, Openhead
Color	Black, White, Black/White, Black/Grey <i>Custom Colors Available</i>
Type	New, Reconditioned
UN Rated	Available

New Steel Drum - Closedhead

Part #	Size	Color	Lining	Fitting	UN Rating
05-1005	15 gallon	Black	Unlined	2" X 3/4"	1A1/Y1.8/300
05-1004	16 gallon	Black	Unlined	2" X 3/4"	1A1/Y1.2/100
05-1100	30 gallon	White	Lined	2" X 3/4"	1A1/Y1.4/300
05-1102	30 gallon	Black	Rust Inhibitor	2" X 3/4"	1A1/Y1.4/300
05-8055	30 gallon	Black/White	Unlined	2" X 3/4"	1A1/Y1.5/280
05-8057	30 gallon	Black/White	Lined	2" X 3/4"	1A1/Y1.5/280
05-1212	55 gallon	Black/White	Unlined	2" X 3/4"	1A1/Y1.8/300
05-1216	55 gallon	White	Unlined	2" X 3/4"	1A1/Y1.8/300
05-1217	55 gallon	Black/White	Lined	2" X 3/4"	Not Rated
05-1218	55 gallon	Black	Lined	2" X 3/4"	1A1/Y1.8/300
05-1213	55 gallon	Black	Unlined	2" X 3/4"	1A1/Y1.8/300
05-1250	55 gallon	Black/White	Rust Inhibitor	2" X 3/4"	1A1/Y1.8/300
05-1600	55 gallon	White	Lined	2" X 3/4"	1A1/Y1.8/300
05-1611*	55 gallon	Black/White	Lined	2" X 3/4"	1A1/Y1.8/300
05-1648	55 gallon	White	Rust Inhibitor	2" X 3/4"	1A1/Y1.8/300
05-8804	55 gallon	Blue/White	Rust Inhibitor	2" X 3/4" X2	1A1/Y1.8/300
05-8820	55 gallon	Blue	Rust Inhibitor	2" X 2"	1A1/Y1.8/300

* This comes with a 2" side bung

RECONDITIONED STEEL DRUM - CLOSEDHEAD



Also Available

Size	30 gallon - 85 gallon salvage
Style	Tighthead, Openhead
Color	Black, White, Black/White, Black/Grey <i>Custom Colors Available</i>
Type	New, Reconditioned
UN Rated	Available

Reconditioned Steel Drum - Closedhead

Part #	Size	Color	Lining	Fitting	UN Rating
04-1020	55 gallon	Black/White	Lined	2" X 3/4"	1A1/Y1.2/100
04-2527	55 gallon	Black/White	Unlined	2" X 3/4"	1A1/Y1.6/100
04-2525	55 gallon	Dark Blue/White	Unlined	2" X 3/4"	1A1/Y1.6/100

Convenient warehouse locations throughout **Midwest, Southwest and Gulf Coast.**

NEW STEEL DRUM - OPENHEAD



Also Available

Size	15 gallon - 85 gallon salvage
Style	Tighthead, Openhead
Color	Black, White, Black/White, Black/Grey <i>Custom Colors Available</i>
Type	New, Reconditioned
UN Rated	Available

New Steel Drum - Openhead

Part #	Size	Color	Lining	Fitting	UN Rating	Ring Style/Features
05-1008	16 gallon	Black	Rust Inhibitor	None	Not Rated	Lug Style Cover
05-8050	30 gallon	Black/White	Rust Inhibitor	2" X 3/4"	1A2/Y1.4/100	Bolt Ring
05-8053	30 gallon	Black/White	Unlined	None	1A2/Y1.4/150	Bolt Ring
05-1202	55 gallon	Black/White	Unlined	2" X 3/4"	1A2/Y1.5/150	Bolt Ring
05-1204	55 gallon	Black/White	Lined	2" X 3/4"	Not Rated	Bolt Ring
05-1219	55 gallon	Black/White	Unlined	2" X 3/4"	1A2/Y1.8/150	Bolt Ring
05-1220	55 gallon	Black/White	Unlined	None	1A2/Y1.8/150	Bolt Ring
*05-1224	55 gallon	Black	Unlined	2" X 3/4"	1A2/Y1.2/100	Bolt Ring
*05-1225	55 gallon	Black	Unlined	None	1A2/Y1.2/100	Bolt Ring
05-1206	55 gallon	Black/White	Unlined	None	1A2/Y1.5/150	Bolt Ring
05-1400	55 gallon	White	Lined	2" X 3/4" Nylon	1A2/Y1.4/100	Nylon Fitting Bolt Ring
05-8026	55 gallon	White	Lined	2" X 3/4" X 2"	1A2/Y1.6/100	Bolt Ring
05-8410	55 gallon	White	Rust Inhibitor	2" X 3/4"	1A2/Y1.4/100	Bolt Ring
05-8025	55 gallon	Black	Lined	2" X 3/4"	1A2/Y1.6/160	Bolt Ring 2" Side Bung
05-1551	55 gallon	Black	Lined	2" & 3/4"	1A2/Y1.8/150	Bolt Ring
05-1262	55 gallon	Black	Rust Inhibitor	2" X 3/4"	1A2/Y1.8/150	Bolt Ring & Agitator
*05-1408	55 gallon	Black/White	Lined	2" X 3/4"	1A2/Y1.4/100	Bolt Ring
05-8414	55 gallon	Black/White	Rust Inhibitor	None	1A2/X300/S	Bolt Ring
*05-1407	55 gallon	Black/Gray	Lined	2" X 3/4"	1A2/Y1.4/100	Bolt Ring
05-8800	55 gallon	Green/White	Rust Inhibitor	2" X 3/4"	Not Rated	Bolt Ring
05-8823	55 gallon	Blue	Rust Inhibitor	2" X 2"	1A2/Y1.2/100	Bolt Ring
05-9500	85 gallon	Yellow	Lined	2"	UN1A2/X440/S	Bolt Ring Printed Salvage
05-9511	85 gallon (Salvage)	Yellow/Red Print	Unlined	Fittings	1A2/X440/S	Bolt Ring
05-9603	110 gallon (Salvage)	Yellow/Red Print	Unlined	2" X 3/4"	1A2/Y409/S	Bolt Ring

* Comes with Irradiated Gasket

RECONDITIONED STEEL DRUM - OPENHEAD

Reconditioned Steel Drum - Openhead						
Part #	Size	Color	Lining	Fitting	UN Rating	Ring Style/ Features
04-1111	55 gallon	Black	Unlined	2" X 3/4"	Not Rated	Bolt Ring
04-1571	55 gallon	Black/White	Unlined	2" X 3/4"	1A2/Y1.2/100	Bolt Ring
04-1000	55 gallon	Black/White	Lined	2" X 3/4"	1A1/Y1.2/200	Bolt Ring
04-1100	55 gallon	Blue/White	Unlined	2" X 3/4"	Not Rated	Bolt Ring



We offer **UN-Rated, Openhead Steel Drums**. These drums are certified to carry hazardous material in accordance with DOT 49CFR.

Drums options come with different **linings, fittings and closing devices**.

More Drums options for Safety & Spill Containment (see pages 49-51)

Also Available	
Size	30 gallon - 85 gallon salvage
Style	Tighthead, Openhead
Color	Black, White, Black/White, Black/Grey Custom Colors Available
Type	New, Reconditioned
UN Rated	Available

Steel Drum Lining Options
(not all options may be applicable on all products and minimums may apply. Contact us to find out.)

- **Phenolics** - Phenolic linings are the least flexible and are suited for agricultural chemicals, flavors and fragrances, strong acids and strong solvents. Phenolic linings are available in Clear/Gold non-pigmented, Tan/Red pigmented, and Olive Drab (OD) pigmented formulas.
- **Epoxy Modified Phenolics** - Epoxy Modified Phenolics are more flexible and are suited for acidic and alkaline products in water, and moderately strong solvents. The epoxy modified phenolic formula is brown in color.
- **Epoxy Phenolics** - The Epoxy Phenolic linings are the most flexible. They are suited for mild solvents and acids in water, alkaline products in water, detergents and surfactants, and food products. The epoxy phenolic linings are buff/tan in color.
- **Unlined Drums** - Nitrogen is injected into the unlined drums which displace "moist" ambient air to help prevent rusting

POLY DRUM - LARGE



Also Available

Size	15 gallon - 95 gallon
Style	Tighthead, Openhead
Color	Natural, White, Blue Custom Colors Available
Shape	Round, Nestable, Straight-sided
Type	New, Reconditioned
Material	HDPE
UN Rated	Available

Poly Tighthead Drum

Part #	Size	Color	Shape	Fittings Size	Handle	UN Rating
06-1512	15 gallon	Natural	Round	2" NPT & 3/4"	Single Handle	1H1/Y1.8/100
06-1500	15 gallon	Blue	Round	2" NPT & 2" Buttress	Single Handle	1H1/Y1.4/100
06-1410	20 gallon	Natural	Square	2" NPT & 2" Buttress	Dual Swing Handle	1H1/Y1.8/100
06-1200	30 gallon	Blue	Round	2" NPT & 2" Buttress	No Handle	1H1/Y1.8/100
06-1350	30 gallon	Natural	Round	2" NPT & 2" Buttress	No Handle	1H1/Y1.8/100
06-1150	35 gallon	White	Round	2" NPT & 2" Buttress	No Handle	1H1/Y1.8/100
06-1000	55 gallon	Blue	Round	2" NPT & 2" Buttress	No Handle	1H1/Y1.8/100
06-1002	55 gallon	Natural/Blue	Round	2" NPT & 2" Buttress	No Handle	1H1/Y1.9/150
06-1135	55 gallon	White	Round	2" NPT & 2" Buttress	No Handle	1H1/Y1.8/100

Poly Openhead Drum

Part #	Size	Color	Fittings Size	Ring Style	UN Rating
06-0501	14 gallon	Natural	No Fitting	Lever Lock	1H2/Y100
06-1127	14 gallon Nestable	Black	No Fitting	Lever Lock	1H2/Y100
06-1526	15 gallon	Blue	No Fitting	Lever Lock	1H2/Y100/S
06-1128	25 gallon Nestable	Natural	1 X 4 Fittings	Lever Lock	1H2/Y100
06-1129	26 gallon Nestable	Natural	No Fitting	Lever Lock	1H2/Y75/S
06-1155	27 gallon Nestable	Red	No Fitting	Lever Lock	1H2/Y75/S
06-1525	30 gallon	Black	2" NPT & 2" Buttress	Lever Lock	Not Rated
06-1539	30 gallon	Blue/Natural	2" NPT & 3/4" NPT	Lever Lock	1H2/Y180/S
06-1145	55 gallon Nestable	Blue	No Fitting	Lever Lock	1H2/Y140/S
06-1157	55 gallon	Blue/Natural	No Fitting	Lever Lock	1H2/Y130/S
06-1147	55 gallon	Blue/Natural	2" NPT & 2" Buttress	Lever Lock	1H2/Y130/S
06-1166	55 gallon	Blue	2" NPT & 2" Buttress	Lever Lock	1H2/Z1.2/100
06-1145	55 gallon	Blue	No Fitting	Lever Lock	1H2/Y140/S
98-1077	57 gallon	Blue	2" NPT & 3/4" NPT	Lever Lock	1H2/Z1.2/100
98-1077	95 gallon (Salvage)	Yellow	No Fitting	Bolt Ring	1H1/X340/S

Poly Drum applications - Petroleum products, oils, lubricants, pharmaceuticals, agricultural chemicals and other applications.

See page 63 – How to Read a UN Marking

POLY TIGHTHEAD PAIL – SMALL

Poly Tighthead Pail - Small

Part #	Size	Color	Shape	Fittings Size	Handle	UN Rating
06-2303	4 gallon	Blue	Square	63mm Flexspout Opening	Molded Handle	3H1/Y1.8/100
06-2180	5 gallon	Blue	Rectangle	70mm Screw Nozzle TE	Swing Handle	1H1/Y1.8/100
06-2190	5 gallon	Natural	Square	70mm Screw Nozzle; 28mm back vent	Molded Handle	3H1/Y1.8/100
06-2166	5 gallon	Natural	Square	63mm Flexspout Rieke Opening	Molded Handle	3H1/Y1.8/100
06-2160	5 gallon	Natural	Square	70mm Screw Nozzle	Molded Handle	3H1/Y1.8/100
06-2215	5 gallon	Natural	Square	70mm Screw Nozzle; 28mm back vent	Molded Handle	3H1/Y1.8/100
06-2227	5 gallon	Natural	Rectangle	70mm Screw Nozzle; 28mm back vent	Swing Handle	3H1/Y1.8/100
06-2150	5 gallon	Natural	Round	70mm Screw Nozzle	Swing Handle	1H1/Y1.8/100
06-2154	5 gallon	White	Round	70mm Screw Nozzle	Swing Handle	1H1/Y1.8/100
06-2275	5 gallon	White	Rectangle	70mm Screw Nozzle	Swing Handle	3H1/Y1.8/100
06-2295	5 gallon	Black	Square	70mm Screw Nozzle; 18mm back vent	Molded Handle	3H1/Y1.8/100
06-2229	20 liter	Natural	Square	Screw Nozzle; 24mm back vent	Molded Handle	3H1/Y1.8/100
06-2136	6 gallon	Blue	Square	70mm Screw Nozzle	Swing Handle	3H1/Y1.8/100
06-2137	6 gallon	Blue	Rectangle	63mm Flexspout Opening	Swing Handle	3H1/Y1.8/100
06-2216	6 gallon	Natural	Square	70mm Screw Nozzle	Molded Handle	3H1/Y1.8/100

We stock a full line of UN Rated Pail Packs and Single Pack items... all tested and certified for the safe transport of hazardous materials. Visit www.HAZplus.com our UN Packaging division.



Also Available

Size	1 gallon - 7 gallon
Style	Tighthead
Color	Natural, White, Blue, Black Custom Colors Available
Shape	Round, Square, Rectangular
Type	New
Material	HDPE
UN Rated	Available
Handle Options	Integrated (Molded-In), Swing



CFR49

Interactive Hazardous Material Table (HMT)

FAST TRACK TO UN REGULATIONS

Register now at www.clsmithcfr.com/cfr_new_user.asp

FIBRE DRUM



Also Available

Size	5 gallon - 95 gallon
Style	LeverLock, All Fibre (Round/Square), LiquiPak, Economy, Steel Chimes, Weather Resistant
Color	Plain Kraft or Painted
Shape	Round, Square
Type	New, Reconditioned
Weight	115, 150, 225 300, 400, 550 lbs (UN & Non-UN Rated)
UN Rated	Available

Fibre Drum

Part #	Size	Closure Style	Cover	Capacity	UN Rating
03-5067	8 gallon	Lever Lock Ring	Steel	225 lbs	1G/X60/S
03-5041	10 gallon	Lever Lock Ring	Plastic	200 lbs	Not Rated
03-5069	12 gallon	Lever Lock Ring	Plastic	225 lbs	1G/X50/S
03-5014	13 gallon	Lever Lock Ring	Steel	225 lbs	1G/Y30/S
03-1700	14 gallon	Slip On Cover	Fiber	150 lbs	Not Rated
03-5015	15 gallon	Lever Lock Ring	Steel	225 lbs	1G/Y75/S
03-5075	15.5 gallon	Slip On Cover	Fiber	150 lbs	1G/Y60/S
03-1012	18 gallon	Loc-Rim Cover	Metal	225 lbs	Not Rated
03-5017	20 gallon	Lever Lock Ring	Fiber	225 lbs	1G/Y60/S
03-6020	20 gallon	Lever Lock	Metal	550 lbs	Not Rated
03-5022	28 gallon	Lever Lock Ring	Fiber	550 lbs	Not Rated
03-5013	30 gallon	Lever Lock	Metal	225 lbs	Not Rated
03-8016	30 gallon	Lever Lock	Plastic	400 lbs	Not Rated
03-5027	30 gallon	Lever Lock Ring	Metal	550 lbs	1G/X75/S
03-5073	30 gallon (square)	Slip On Cover	Fiber	150 lbs	1G/X71/S
03-5028	35 gallon	Lever Lock Ring	Steel	400 lbs	1G/X120/S
03-5039	41 gallon	Lever Lock Ring	Steel	550 lbs	1G/Y240/S
03-5051	48.2 gallon	Lever Lock Ring	Fiber	300 lbs	1G/Y136/S
03-6021	51 gallon	Lever Lock	Metal	500 lbs	1G/Y235/S
03-5008	55 gallon	Lever Lock	Metal	550 lbs	1G/Y257/S
03-5063	55 gallon	Lever Lock Ring	Steel	550 lbs	1G/Y213/S
03-5065	55 gallon	Lever Lock Ring	Steel	225 lbs	1G/Y200/S
03-0900	4' Lamp Drum	Slip On Cover	Fiber	150 lbs	Not Rated
03-0901	8' Lamp Drum	Slip On Cover	Fiber	150 lbs	Not Rated
03-5076	67 gallon	Lever Lock Ring	Steel	550 lbs	1G/Y250/S

* All Drums Uncoated

*It is always the **buyer's responsibility** to make the final decision as to whether any given container or closure is suitable or safe for use with the intended product(s). The buyer is cautioned to satisfy himself that all products purchased are compatible with the product being packaged.*

VIEW OUR CLOSEOUTS & SPECIALS!

Save **20-60%** on large assortment of products!

Steel Drum - Accessory

Part #	Description
05-0910	3/4" Metal Sealing Cap
05-0912	3/4" Plastic Sealing Cap Snap On
05-0796	2" Plastic Sealing Cap
05-0908	2" Plastic Sealing Cap Crimp On
05-0911	2" Plastic Sealing Cap Snap On
05-0915	2" Metal Sealing Cap
05-0950	Combination Wrench For Tightening Bungs (pre-set also available)
06-1777	Drum Insert 55GI Hedliner 15MI Natural Pleats
06-1656	Drum Insert 30GI Ldpe 18-1/2" X 28-3/8" 0.20 Mil For Fiber
05-0769	Tamper Evident Plastic Sealing Cap 2" Samba
05-0908	Tamper Evident Plastic Sealing Cap 2"
05-0912	Tamper Evident Plastic Snap On Sealing Cap 3/4"
05-0950	Combination Bung Wrench For Tightening Bungs



Poly Drum - Accessory

Part #	Description
05-0769	Tamper Evident Plastic Sealing Cap 2" Samba
05-0908	Tamper Evident Plastic Sealing Cap 2"
05-0912	Tamper Evident Plastic Snap On Sealing Cap 3/4"
06-2700	70mm Natural (8 TPI) Screw Cap with FS 60 Rieke Flex Spout Installed
06-2750	70mm Screw Cap With 3/4" Reducer
06-2758	70mm Screw Cap With 3/4" Reducer Tamper Evident
06-2850	70mm Screw Cap Plain
06-2874	70mm Screw Cap With 3/4" Reducer With Viton Gasket
06-2760	51mm Screw Cap Black Plain
05-0950	Combination Bung Wrench For Tightening Bungs
06-2900	Faucet Natural 3/4" Threaded
06-3051	Dust Cover For 5Gal Cubitainer
06-2759	70mm Natural Screw Cap 3/4" Reducer Fitting
06-2704	70mm Screw Cap Natural Spout With Flex Spout Installed
06-2900	Flo-Rite Natural 3/4 Thread
06-2950	Floking Gold 2" Thread
06-3025	DKG Quick Serve Natural 3/4 Thread
06-3050	DKG Quick Serve Tap Natural 38mm

LEVER LOCK AND BOLT RING ASSEMBLIES
ARE AVAILABLE FOR PURCHASE



OPENHEAD PAIL



Also Available	
Size	1gl - 12gl
Style	Openhead Round (nested, straight-sided), Openhead Square
Cover Style	UN, Non-UN, Screw Top, Pry Off, Tear-tab
Color	Natural, White, Clear <i>Custom Colors Available</i>
Handle Options	Metal, Plastic
UN Rated	Available

All pails, 4 to 6 gallons, are marked with the mandatory child warning label.

See Consumer Product Safety Alert on page 61.

Openhead Pail

Part #	Size	Color	Handle	MIL Thickness
07-1002	1 gallon	Black	Metal/Plastic	60
07-1018	1 gallon	Natural	Plastic	65
07-1000	1 gallon	White	Metal/Plastic	60
07-1200	2 gallon	Black	Metal	70
07-1103	2 gallon	White	Metal	70
07-1100	2 gallon	White	Plastic	65
07-1405	3.5 gallon	Black	Metal	90
07-1350	3.5 gallon	White	Metal	90
07-1450	4.25 gallon*	Natural	Metal	90
07-1711	5 gallon*	Black	Metal	90
07-1757	5 gallon*	Chevron Blue	Metal	90
07-1733	5 gallon*	Green	Metal	90
07-1763	5 gallon*	Red	Metal	90
07-1647	5 gallon*	White	Metal	90
07-1792	5 gallon*	Yellow	Metal	90
07-1806	6 gallon*	White	Metal	90
07-1812	6.5 gallon* (square)	White	Plastic	90

All plastic pails are made with HDPE material. * Denotes child warning label
 All 5 gallon and 20 Liter pails are UN certified only when used with a UN cover.

Openhead Pail (UN Certified)

Part #	Size	Color	Handle	MIL Thickness	UN Rating
07-4247	20 liter*	Natural	Metal	90	UN1H2/Y1.5/30; UN1H2/Y25/S; UN1H2/Y43/S
07-4246	20 liter*	White	Metal	90	UN1H2/Y1.5/30; UN1H2/Y25/S; UN1H2/Y43/S
07-1365	3.5 gallon	White	Metal	90	1H2/Y1.5/30; 1H2/Y25/S; 1H2/Y43/S
07-1602	5 gallon*	Natural	Metal	90	1H2/Y1.5/30; 1H2/Y25/S; 1H2/Y43/S
07-1796	5 gallon*	Red	Metal	90	1H2/Y1.5/30; 1H2/Y25/S; 1H2/Y43/S
07-1603	5 gallon*	White	Metal	90	UN1H2/Y1.5/50
07-1647	5 gallon*	White	Metal	90	UN1H2/Y1.5/30; UN1H2/Y25/S; UN1H2/Y43/S
07-1820	6 gallon*	White	Metal	90	UN1H2/Y25/S

All plastic pails are made with HDPE material. * Denotes child warning label

OPENHEAD PAIL COVER



Openhead Pail Cover

Part #	Size	Color	Cover Style	Fitting
07-1052	1 gallon	White	Standard	Plain
07-1063	1 gallon	White	Tear Tab	Plain
07-1056	1 gallon	Black	Standard	Plain
07-1519	1 gallon	Natural	Tear Tab	Plain
07-1152	2 gallon	White	Tear Tab	Plain
07-1150	2 gallon	White	Standard	Plain
07-1251	2 gallon	Black	Tear Tab	Plain
07-2247	3.5-5-6GL – 20L	Red	Tear Tab	Flexspout Installed
07-5063	3.5-5-6GL – 20L	Blue	Tear Tab	Flexspout Installed
07-5087	3.5-5-6GL – 20L	Blue	Tear Tab	Plain
07-2185	3.5-5-6GL – 20L	Black	Tear Tab	Plain
07-2186	3.5-5-6GL – 20L	Black	Tear Tab	Flexspout Installed
07-2187	3.5-5-6GL – 20L	White	Tear Tab	Flexspout Installed
07-1907	3.5-5-6GL – 20L	Black	Tear Tab	Flexspout Installed/All Plastic Spout
07-6066	3.5-5-6GL – 20L	Green	Tear Tab	Flexspout Installed/ Micro Pourous Vent
07-1933	3.5-5-6GL – 20L	Green	Standard	Flexspout Installed
07-5041	3.5-5-6GL – 20L	Turquoise	Tear Tab	Plain
07-5058	3.5-5-6GL – 20L	Natural	Tear Tab	Flexspout Installed
07-5064	3.5-5-6GL – 20L	Orange	Tear Tab	Flexspout Installed
07-2079	3.5-5-6GL – 20L	Red	Standard	Flexspout Installed
07-5061	3.5-5-6GL – 20L	Red	Tear Tab	Flexspout Installed
07-2227	3.5-5-6GL – 20L	Blue	Tear Tab	Plain
07-5074	3.5-5-6GL – 20L	Blue	Tear Tab	Flexspout Installed
07-2180	3.5-5-6GL – 20L	White	Tear Tab	Plain
07-1917	3.5-5-6GL – 20L	White	Tear Tab	Flexspout Installed/All Plastic Spout
07-5057	3.5-5-6GL – 20L	White	Tear Tab	Flexspout Installed/Anti Glug
07-6065	3.5-5-6GL – 20L	Yellow	Tear Tab	Flexspout Installed/ Micro Pourous Vent
07-1813	6.5 gallon	White	Standard	Square Flip Top

All plastic pails are made with HDPE material.

OPENHEAD PAIL COVER (UN CERTIFIED)

Openhead Pail Cover (UN Certified)					
Part #	Size	Color	Cover Style	Fittings	UN Rating
07-1940	3.5-5-6GL-20L	Red	Standard	Plain	UN Liquid or Solid
07-6067	3.5-5-6GL-20L	Green	Standard	Flexspout Installed/Special Vent, Microporous	UN Liquid or Solid
07-1929	3.5-5-6GL-20L	Red	Standard	Flexspout Installed/All Plastic Spout	UN Liquid or Solid
07-2207	3.5-5-6GL-20L	White	Tear tab	Plain	UN Solid
07-4250	3-5-6GL-20L	White	Standard	70mm Screw Cap	UN Liquid or Solid
07-2067	3-5-6GL-20L	White	Standard	Rieke Prep	UN Liquid or Solid
07-1936	3.5-6GL-20L	Natural	Standard	70mm Screw Cap Installed W/ FS-80 Cap	UN Liquid or Solid
07-5023	5GL-20L	Blue	Standard	Flexspout Installed	UN Liquid or Solid
07-5019	5GL-20L	Blue	Standard	70mm Screw Cap	UN Liquid or Solid
07-5018	5GL-20L	Green	Standard	70mm Screw Cap	UN Liquid or Solid
07-5024	5GL-20L	Green	Standard	Flexspout Installed	UN Liquid or Solid
07-5017	5GL-20L	Orange	Standard	70mm Screw Cap Opening	UN Liquid or Solid
07-5016	5GL-20L	Red	Standard	70mm Screw Cap Opening	UN Liquid or Solid
07-5038	5GL-20L	Red	Standard	Flexspout Installed	UN Liquid or Solid
07-5015	5GL-20L	White	Standard	70mm Screw Cap Opening	UN Liquid or Solid
07-5021	5GL-20L	White	Standard	Flexspout Installed	UN Liquid or Solid
07-6071	5GL-20L	Yellow	Standard	70mm Screw Cap Opening	UN Liquid or Solid
07-4251	5GL-20L	White	Standard	Plain	UN Liquid or Solid
07-1928	5GL-20L	Natural	Standard	Flexspout Installed	UN Liquid or Solid

All plastic pails are made with HDPE material.

*All 5 gallon and 20 liter pails are UN certified **only when used with a UN cover.***

*The HDPE material used in the manufacture of our pails meets the Food and Drug Administration requirements of 21CFR177.1520. However, some colors, especially black, may not be approved for food or drug products. **Please ask us about colors if you are packaging these products.***

PLASTIC SCREW TOP PAIL AND COVER



Plastic Screw Top Pail and Cover

Part #	Size	Color	Handle	MIL Thickness	Design Type	UN Rating
07-1842	1.25 gallon	White	Plastic	60	New Generation	1H2/Y6/S
07-1849	2 gallon	White	Plastic	75	Original	1H2/Y12/S
07-1112	2.5 gallon	White	Plastic	75	New Generation	1H2/Y15/S
07-2028	3.5 gallon	White	Plastic	90	Original	1H2/Y19/S
07-2010	5 gallon*	White	Plastic	90	Original	1H2/Y30/S
07-1869	5 gallon*	White	Plastic	90	New Generation	1H2/Y30/S
07-1866	5 gallon*	White	Plastic	90	New Generation	1H2/Y1.5/30
07-1841	6 gallon*	White	Plastic	90	New Generation	1H2/Y4/S
07-1874	6.5 gallon*	White	Plastic	90	New Generation	1H2/Y30/S

All plastic pails are made with HDPE material.

* Denotes child warning label

Available sizes of screw top pails range from .5 gallon to 12 gallons. Minimums may apply.

BLADDER IN A BOX



Bladder In A Box

Part #	Size	Color	Neck	Feature	Model	UN Rating
06-2504	1 gallon	Natural	No Handle	LLDPE Insert In White UN Box	Cubetainer®	4G/Y6/S
06-2364	5 liter	Natural	No Handle	LLDPE Insert In White UN Box	Cubetainer®	4G/Y8/S
06-2405	2.5 gallon	Natural	Die Cut Slot	LLDPE Insert In White UN Box	Cubetainer®	4G/Y16/S
06-2356	20 liter	Natural	Attached	LLDPE Insert In White UN Box	Cubetainer®	4G/Y16/S

Bladder and Box may be sold separately.



PACE is all about helping customers reach their sustainable goals with "environmentally friendly" packaging alternatives that contribute to a cleaner environment.

C.L. Smith and its family of companies, is committed to the support of sustainable practices. This includes building awareness of sustainable lifecycle packaging practices, advising customers of Packaging Alternatives for a Cleaner Environment (PACE) and embracing practices that minimize our own environmental impact.

Get ideas on practicing Sustainable Packaging

- ✓ **Ways to reduce source material**
- ✓ **Options to increase Recyclable Material**
- ✓ **Alternatives for "greener" exterior packaging**
- ✓ **How to stay out of the land fill**

STEEL PAIL – OPENHEAD

Steel Pail – Openhead

Part #	Size	Color	Style	Lining	UN Rating	CWL
08-3015	3.5 gallon	Grey	Nested	Lined	Non Regulated	No
08-1767	5 gallon	Grey	Nested	Lined	Non Regulated	No
08-1750	5 gallon	Grey	Nested	Rust Inhibitor	Non Regulated	No
08-2200	5 gallon	Grey	Staight Sided	Rust Inhibitor	UN1A2/Y1.2/80**	No
08-1762	5 gallon	Grey	Nested	Rust Inhibitor	UN1A2/Y1.2/81*	No
08-1770	5 gallon	Grey	Nested	Lined	UN1A2/Y1.5/90*	No
08-1745	5 gallon	Grey	Nested	Rust Inhibitor	UN1A2/Y1.5/90*	No
08-1735	5 gallon	Grey	Nested	Rust Inhibitor	UN1A2/Y1.9/100*	No
08-1244	5 gallon	Grey	Nested	Lined	UN1A2/Y1.9/100*	No
08-2177	5 gallon	Grey	Nested	Rust Inhibitor	UN1A2/Y1.9/100*	Yes
08-1742	5 gallon	White	Nested	Rust Inhibitor	UN1A2/Y1.9/100*	No
08-1196	5 gallon	White	Nested	Lined	UN1A2/Y1.9/100*	Yes
08-1725	5 gallon	Black	Nested	Rust Inhibitor	UN1A2/Y1.9/100*	No
08-1900	5 gallon	Black	Nested	Rust Inhibitor	Non Regulated	No
08-1760	5 gallon	Black	Nested	Rust Inhibitor	UN1A2/Y1.5/90*	No

* Regulated pails require use of 24 ga, UN rated cover not included.

** Includes plain cover



Also Available

Size	1 gallon - 7.5 gallon
Style	Openhead (nested, straight-sided), Closedhead
Cover Style	Dish/leverlock, Lug
Color	Black, White, Grey Custom Colors Available
Handle Options	24-29 gauge (UN & Non-UN Rated)
UN Rated	Available; Lever lock version is UN rated for Liquids.

STEEL PAIL – COVER

Steel Pails – Cover

Part #	Style	Color	Lining	UN Rating	Fittings
08-2751	Dish	Grey	Lined	Non Regulated	No Fittings
08-2350	Lug	Black	Unlined	Non Regulated	No Fittings
08-2450	Lug	Black	Unlined	Non Regulated	Flexspout Installed
08-1248	Lug	Grey	Lined	U.N. Liquid	Screw Cap And Seal
08-1507	Lug	Grey	Lined	U.N. Liquid	No Fittings
08-1026	Lug	Grey	Lined	U.N. Liquid	Flexspout Installed
08-1509	Lug	Grey	Unlined	U.N. Liquid	No Fittings
08-1508	Lug	Grey	Unlined	U.N. Liquid	Flexspout Installed
08-1506	Lug	Black	Unlined	U.N. Liquid	No Fittings
08-1511	Lug	Black	Unlined	U.N. Liquid	Flexspout Installed
08-1204	Lug	White	Lined	U.N. Liquid	Flexspout Installed
08-1207	Lug	Black	Lined	U.N. Liquid	Flexspout Installed
08-1512	Lug	White	Unlined	U.N. Liquid	Rieke Spout
08-1514	Lug	Grey	Unlined	U.N. Liquid	Screw Cap
08-1517	Lug	Black	Lined	U.N. Liquid	No Fitting



NEED ASSISTANCE?
CALL AN
EXPERT

CLS – 800-264-1202
HAZ – 866-596-6786

STEEL PAIL - CLOSEDHEAD



Also Available	
Size	1 gallon - 7.5 gallon
Style	Openhead (nested, straight-sided), Closedhead
Cover Style	Dish/leverlock, Lug
Color	Black, White, Grey Custom Colors Available
Handle Options	24-29 gauge (UN & Non-UN Rated)
UN Rated	Available; Lever lock version is UN rated for Liquids.

Steel Pail - Closedhead					
Part #	Size	Color	Opening/Fitting	Lining	UN Rating
08-3021	1 gallon	Black	3/4" Rieke Bung	Rust Inhibitor	UN1A1/X1.5/250
08-2077	1 gallon	Grey	Rieke Opening - No Spout	Lined	1A1/X1.5/250
08-3023	1 gallon	Black	2" Rieke Bung	Lined	1A1/X1.5/250
08-3024	1 gallon	Red	3/4" Rieke Bung	Lined	1A1/X1.5/250
08-3200	5 gallon	Black	Screw Cap And Spout	Rust Inhibitor	UN1A1/Y2.1/300
08-3400	5 gallon	Black	Screw Cap And Spout	Rust Inhibitor	UN1A1/Y1.8/200
08-3916	5 gallon	Black	Flexspout Opening No Spout	Rust Inhibitor	UN1A1/Y1.2/200
08-3060	5 gallon	Black	Screw Cap And Spout	Unlined	1A1/Y1.6/150
08-3550	5 gallon	Black	Rieke Prep Fitting	Unlined	1A1/Y1.8/200
08-3501	5 gallon	Grey	Flexspout Opening No Spout	Rust Inhibitor	UN1A1/Y1.8/200
08-3100	5 gallon	Grey	Flexspout Opening No Spout	Lined	UN1A1/Y2.1/300
08-3255	5 gallon	Grey	Flexspout Opening No Spout	Rust Inhibitor	UN1A1/Y2.1/300
08-3600	5 gallon	Grey	Screw Cap And Spout	Rust Inhibitor	UN1A1/Y1.8/200
08-3208	5 gallon	Grey	Screw Cap And Spout	Unlined	1A1/Y2.1/300
08-3300	5 gallon	Grey	2" Rieke Bung	Lined	1A1/Y2.1/300
08-3915	5 gallon	White	Flexspout Opening No Spout	Rust Inhibitor	UN1A1/Y1.2/200

We provide samples for testing, however, we are not liable for any claims, lawsuits, damages or losses.

Our UN rated pails are designed to carry hazardous materials in accordance with DOT 49CFR.

Plastic Pail Accessory

Part #	Size	Color	Description
06-1860	1/2 gallon	Natural	Topliner Cradle Insert Holds 1/2 Gal Can
06-1780	2 gallon	Natural	HDPE Pail Insert
06-1791	3.5 gallon	Natural	HDPE Pail Insert
06-1800	5 gallon	Natural	HDPE Pail Insert
06-1820	5 gallon	Natural	HDPE Pail Insert Anti-Stat
06-1805	5 gallon	Natural	HDPE Pail Insert
06-1858	1.25 gallon/5 quart	Natural	HDPE Pail Insert



Steel Pail Accessory

Part #	Description
08-0895	Anti-Glug Rieke Senior Flexspouts
05-0955	Crimping Tool For Rieke Senior Flexspout
08-2860	Manual Lid Closing Tool For 11-1/4" 16 Lug Covers
08-2865	Pneumatic Closing Tool For 11 1/4" 16 Lug Covers
08-2800	Leverlock Ring For Dish Cover 18 Gauge Powder Coated



CONE TOP / POUR TOP



Also Available

Size 250ml, 1/2 pint, 1 pint, 1 quart, 1liter

Nozzle Size Options 24mm, 32mm, 1", 1-1/8", 1-1/4", 1-3/4"

Liner Options Unlined (conetop available with gold lining only) or Lined (1 qt size only)

Cone Top / Pour Top

Part #	Size	Style	Diameter/ Height	Nozzle Size/ Brand	Pack
12-4816	250 ml	Cone Top	211 X 307	32mm REL	Bulk Palletized
12-4800	1 pint	Cone Top	211 X 600	1-1/8 BETA	Bulk Box
12-4805	1 pint	Cone Top	211 X 600	32mm REL	Bulk Palletized
12-4650	1 quart	Cone Top	307 X 704	1-1/8" BETA	Bulk Box
12-4655	1 quart	Cone Top	307 X 704	32mm REL	Bulk Palletized

Ask about minimums for custom printed cans.

OBLONG & F-STYLE



Also Available

Size 1/4 pint - 20 liters

Nozzle Size Options 24mm, 32mm, 57mm, 1", 1-1/4", 1-3/4" and .954 opening

Liner Options Unlined or Lined (1 quart and 1 gal size only)

Oblong & F-Style

Part #	Size	Color	Nozzle Size	Nozzle Brand	Pack
12-4250	1 pint	Plain	1-1/4"	Alpha	Bulk Box
12-4157	1 quart	Plain	1"	Delta	Bulk Box
12-4150	1 quart	Plain	1-1/4"	Alpha	Bulk Box
12-4162	1 quart	Plain	1-3/4"	Delta	Bulk Box
12-4100	Half gallon	Plain	1-1/4"	Alpha	Bulk Palletized
12-3950	1 gallon	Plain	1-1/4"	Alpha	Bulk Box
12-3970	1 gallon	White	1-1/4"	Alpha	Bulk Box
12-4075	1 gallon	Plain	1-3/4"	Delta	Bulk Box
12-3913	1 gallon	White	32mm	Rel	Bulk Palletized
12-4301	1 gallon	Plain	57mm	Din	Bulk Palletized
12-3912	1 gallon	plain	32mm	Rel	Bulk Box

ROUND PAINT

Round Paint					
Part #	Size	Lining	Ears & Bails	Pack	Diameter X Height
12-1853	Half pint	Lined	No	Arco	214 X 214
12-1801	Half pint	Unlined	No	Arco	214 X 214
12-1702	1 pint	Unlined	No	Arco	307 X 315
12-1753	1 pint	Lined	No	Arco	
12-1653	1 quart	Lined	No	Arco	404 X 414
12-1601	1 quart	Unlined	No	Arco	404 X 414
12-2470	1 liter	Unlined	No	Arco	404 X 502.5
12-1560	Half gallon	Lined	No	Bulk Box	5-3/8" X 5-7/8"
12-1570	Half gallon	Lined	Plug For Above	Bulk Box	5-3/8"
12-2350	Half gallon	Unlined	No	Bulk Box	5-3/8" X 5-7/8"
12-2400	Half gallon	Unlined	Plug For Above	Bulk Box	5-3/8"
12-1426	1 gallon	Lined	No	Arco	610 X 710.5
12-1427	1 gallon	Unlined	No	Arco	610 X 710.5
12-1428	1 gallon	Lined	Yes	Arco	610 x 710.5
12-1430	1 gallon	Unlined	Yes	Arco	610 X 710.5



Also Available	
Size	1/4 pint - 5 liter
Style	With Handles available on 1/2 and 1 gallon
Liner Options	Unlined, Lined
Color	Tinplate, Black (plastic hybrid) Custom Colors Available
Materials	Tin or Plastic (made from 70% PCR)

MONOTOP & UTILITY

Monotop & Utility					
Part #	Size	Style	Diameter/Height	Nozzle Size/Brand	Pack
12-5050	Quarter pint	Mono Top	202 X 214	1-1/4" International	Bulk Box
12-4970	Half pint	Mono Top	211 X 304	1-3/4" International	Bulk Box

See our wide assortment of UN Tin Can Packs...**in stock, tested and certified.**



Also Available	
Size	4 oz, 8 oz, 16 oz, 32 oz
Nozzle Size Options	1", 1 3/4", 1 1/4", 1 1/8", 32mm REL
Liner Options	Unlined

SPUN ALUMINUM



Spun Aluminum						
Part #	Size	Color	Nozzle Size	Style	Lining	UN Rating
12-3971	4 ounce	Brushed Aluminum	24-410	Cylinder	Epoxy Phenolic	Not Rated
12-3988	4.4 ounce	Brushed Aluminum	32mm	Cylinder	Unlined	Not Rated
12-3997	4.4 ounce	Brushed Aluminum	32mm	Cylinder	Epoxy Phenolic	UN1B1/X1.2/250
12-3977	4.4 ounce	Brushed Aluminum	32mm	Cylinder	Epoxy Phenolic	UN1B1/X1.2/250
12-3974	9 ounce	Brushed Aluminum	32mm	Cylinder	Epoxy Phenolic	UN1B1/X1.2/250
12-3987	9 ounce	Brushed Aluminum	32mm	Cylinder	Unlined	Not Rated
12-3973	21 ounce	Brushed Aluminum	32mm	Cylinder	Epoxy Phenolic	UN1B1/X1.2/250
12-3986	21 ounce	Brushed Aluminum	40mm	Cylinder	Unlined	Not Rated
12-3984	37 ounce	Brushed Aluminum	40mm	Cylinder	Unlined	Not Rated
12-3910	128 ounce	Brushed Aluminum	57mm	Oblong	Unlined	Not Rated

— Making your —
LIFE EASIER

- 100% Customer Focused
- Long Term Partnerships
- Flexible & Easy to Work With
- Committed to Quality
- Investing in Value-Add Services
- Always Competitively Priced
- Specialized Solutions:
 - » Custom Bottle Manufacturer
 - » UN Certifier
 - » Full-Line Distributor

ACCESSORY, INNER SEAL & CAP

Secure Shipping Accessory

Part #	Size	Type
12-3852	Half Pint	Can Clip
12-3850	Quart/Pint	Can Clip
12-3800	Gallon	Can Clip
12-3855	Pint	Armlock
12-3860	Quart/Pint	Armlock

Inner Seal for Oblong Can

Part #	Nozzle Size	Nozzle Brand
12-6600	1-1/8"	Beta
12-6450	1-1/4"	Alpha
12-6461	1-3/4"	Delta
12-6200	1-3/4"	International

Cap for Oblong Can

Part #	Nozzle Size	Nozzle Brand	Lining	Style
12-6710	1"	Delta	.045 Pulp And Aluminum Foil	Non Child Resistant
12-6250	1-1/4"	Alpha	.045 Pulp And Solvseal	Non Child Resistant
12-6405	1-1/4"	Alpha	.045 Pulp And Aluminum Foil	Non Child Resistant
12-6050	1-3/4"	International	.045 Pulp And Solvseal	Non Child Resistant
12-6052	1-3/4"	Delta	.045 Pulp And Solvseal	Non Child Resistant
12-6100	1-3/4"	International	.045 Pulp And Tinfoil	Non Child Resistant
12-6404	1-3/4"	Delta	.045 Pulp And Mf504	Child Resistant
11-3921	32mm	Rel	Unlined	Child Resistant
12-6155	1-3/4"	International	.050 F-217 Lining	Non Child Resistant
12-6254	1-3/4"	Delta	0.045 Pulp And Alum Foil	Non Child Resistant
12-6401	1-1/4"	Alpha	MF504 (Composite Of Aluminum Foil/Polyester)	Child Resistant
12-6402	1-1/4"	Alpha	MF504 (Composite Of Aluminum Foil/Polyester)	Non Child Resistant
12-6403	1-3/4"	Alpha	MF504 (Composite Of Aluminum Foil/Polyester)	Non Child Resistant

Tightening/Closing Tools

Part #	Type	Description
12-2925	T-Bar	For 1-3/4" Delta Innerseal Seal
12-2926	T-Bar	For 1-1/4" Alpha Innerseal Seal
12-6352	T-Tool	1 1/4" Alpha Child-resistant Cap Tightening
12-6353	T-Tool	1 3/4" Alpha Non Child-resistant Cap Tightening
12-6354	T-Tool	1 1/4" Alpha Non Child-resistant Cap Tightening
Misc 2066	Drive Chuck	1/4" Shell Suitable For 25-40MM Closures



**DON'T SEE WHAT
YOU'RE LOOKING FOR?**

- CALL US TO DISCUSS YOUR PROJECT! -

BOSTON ROUND



Also Available

Size 1 oz - 1 gallon

Neck Finish 20mm - 38mm

Color Amber, Flint (Clear)
Custom Colors Available

Boston Round

Part #	Size	Finish	Color	Pack
10-0990	.05 ounce	18-400	Flint	Bulk Box
10-1200	1 ounce	20-400	Amber	Bulk Box
10-1650	4 ounce	22-400	Amber	Bulk Box
10-1950	8 ounce	24-400	Flint	12-In
10-2400	16 ounce	28-400	Amber	Bulk Box
10-2450	16 ounce	28-400	Flint	Bulk Box
10-2850	32 ounce	33-400	Flint	12-In

ECONOMY JAR



Also Available

Size 60cc - 128cc

Neck Finish 33mm - 89mm, CT
and Lug

Color Amber, Flint (Clear)
Custom Colors Available

Economy Jar

Part #	Size	Finish	Color	Pack
10-1460	2 ounce	33-400	Amber	Bulk Box
10-1850	4 ounce	48-400	Flint	24-In
10-2150	8 ounce	58-400	Flint	12-In
10-2250	16 ounce	63mm	Flint	12-In
10-2601	16 ounce	70-G-450	Flint	12-In
10-3020	32 ounce	70-G-450	Flint	12-In
10-3150	64 ounce	83-400	Flint	6-In

See **Caps & Closures** for various closing options.
Or contact our Customer Care department to discuss ideas.

FLINT

Flint French Square

Part #	Size	Finish	Color	Pack
10-1250	1 ounce	24-400	Flint	Bulk Box
10-1400	2 ounce	28-400	Flint	Bulk Box
10-1750	4 ounce	33-400	Flint	Bulk Box
10-2100	8 ounce	43-400	Flint	Bulk Box
10-2500	16 ounce	48-400	Flint	Bulk Box



Also Available

Size	1 oz - 32 oz
Neck Finish	24mm - 58mm
Color	Amber, Flint (Clear) Custom Colors Available

Flint Straight Sided Jar

Part #	Size	Finish	Color	Pack
10-1300	1 ounce	38-400	Flint	Bulk Box
10-1800	4 ounce	58-400	Flint	Bulk Box
10-2135	8 ounce	70-400	Flint	24-In
10-2700	16 ounce	89-400	Flint	Bulk Box
10-2950	32 ounce	89-400	Flint	12-In



Also Available

Size	1 oz - 64oz
Neck Finish	38mm - 89mm
Color	Amber, Flint (Clear) Custom Colors Available

VIAL

Vial

Part #	Size	Finish	Color	Pack
10-1005	1 dram	13-425	Flint	Tray/Carton
10-1007	2 dram	15-425	Flint Clear	Tray/Carton
10-1110	4 dram	18mm	Flint	Bulk Box
10-1251	1 ounce	24-400	Flint	Bulk Box



Also Available

Size	1 dram - 4oz
Neck Finish	13mm - 28mm
Color	Amber, Flint (Clear)

PACKER



Also Available

Size	30 cc - 1250 cc
Neck Finish	28-400 - 53-400
Color	Amber, Flint (Clear) Custom Colors Available

Packer

Part #	Size	Finish	Color	Pack
10-1065	30cc	28-400	Amber	Bulk Box
10-1460	60cc	38-400	Amber	Bulk Box
10-1655	120cc	38-400	Amber	12-In
10-3451	200cc	45-400	Amber	Bulk Box
10-3525	500cc	53-400	Amber	Bulk Box
10-3550	900cc	53-400	Amber	12-In

Note: 30cc=1oz

LIQUOR



Also Available

Size	750ml, 1L, 1.75L
Neck Finish	28-400TI, 33mm
Color	Flint (Clear) Custom Colors Available

Liquor

Part #	Size	Finish	Color	Pack
10-2306	375ml	Cork	Flint	12-In
10-5016	750ml	Cork	Flint	12-In
10-5017	750ml	38-400	Flint	12-In
10-2908	1 liter	Cork	Flint	12-In
10-3023	1 liter	28-405	Flint	12-In
10-3025	1 liter	Cork	Flint	12-In

DRESSING & SAUCE



Dressing & Sauce

We can provide a wide variety of glass bottles, jars and jugs for sauces, vinegars and dressings in various neck finishes, flint and amber colors and neck sizes. Minimum quantities may apply.

LARGE POLY DRUM & OVERPACK

Large Poly Drum & Overpack

Part #	Size	Color	Material	Closure Type/Size	Gasket Type	UN Rating
06-1111	20 gal OH Lab Pack	Yellow	HDPE	Screw Top Cover/ No Fittings	n/a	1H2/X57/S
06-1117	30 gal OH Lab Pack	Yellow	HDPE	Screw Top Cover/ No Fittings	N/a	1H2/Y180/S
98-1077	95 gal Salvage Drum	Yellow	HDPE	Bolt Ring/ No Fitting	n/a	1H1/X340/S
98-1078	95-gal OH Straight Overpack	Yellow	HDPE	Screw Top Cover	Gasket	1H1/x300/S



LAB PACK

Nestable Lab Pack

Size	Color	Material	Closure Type	UN Rating
30 Gallon	Black	HDPE	Lever Lock	1H2/X100/X
55 Gallon	Black	HDPE	Lever Lock	IH2/X100/X



LARGE STEEL RECOVERY DRUM

Large Steel Recovery Drum

Part #	Size	Color	Material	Closure Type/Size	Gasket Type	UN Rating
05-9511	85-gal OH Salvage Drum	Yellow	Steel	2"	EDPM	1A2/X440/S



CUBIC YARD BOX



Cubic Yard Box

Part #	Design Size & Type	Capacity	Interior Coating	Lading	Special Feature	UN Rating
30-9993	36"x36"x36" (1 Cubic Yard)	Kraft	LDPE (included)	Solids	Incerable, Stores Flat (reduces storage space)	11G/PG I, II, III

We carry **Cubic Yard Box** liners

SPILL PLATFORM



Spill Platform

Part #	Design Size & Type	Color	Capacity	Special Feature
98-5033	Two Drum Spill Pallet	Yellow	66 Gallon Spill Capacity, 4,000 lb Load Capacity	Removeable Poly Grating 1.75" With Opening
98-1066	Two Drum Modular Spill Platform	Yellow	30 Gallon Spill Capacity	Removeable Poly Grating
98-1067	Four Drum Modular Spill Platform	Yellow	30 Gallon Spill Capacity/Side, 10,000 lb Load Capacity	Removeable Poly Grating
98-1069	Four Drum Low Profile Modular Spill Platform	Yellow	66 Gallon Spill Capacity	Removeable Poly Grating 1.75" With Opening

SAFETY STORAGE CABINET



Safety Storage Cabinet

Part #	Design Size & Type	Color	Capacity	Special Feature
98-1046	1 shelf, 2 doors, manual closing	Yellow	30 gallon	Vents with 2" threaded fitting; Flammable
98-1050*	2 shelves, 2 doors, manual closing	Yellow	45 Gallon	Vents with 2" threaded fitting; Flammable
98-5017	2 shelves, 2 doors, manual closing	Yellow	60 gallon	Vents with 2" threaded fitting; Flammable
98-1051	2 shelves, 2 doors, manual closing	Yellow	90 gallon	Vents with 2" threaded fitting; Flammable

*These cabinets meet OSHA and NFPA specifications. Most cabinets are FM approved. They work great in environments where chemicals must be stored, such as chemical plants, warehouses and labs.

SAFETY CAN

Safety Can				
Part #	Design Size & Type	Color	Funnel	Special Feature
98-1118	2 Qt Coated Bench Can	Red Metal	With or Without Funnel	With Dasher Screen
98-6039	1 Gal Oblong Lab Can	Red Polyethylene	With or Without Funnel	With Handles, Metal Fittings and Flame Arrestor
98-1025	2 Qt Safety Can Type I	Red Metal	Without Funnel	With Yellow Print
98-1023	1 Gal Safety Can Type I	Red Metal	With or Without Funnel	With Yellow Print
98-1024	1 Gal Safety Can Type I	Blue Metal	With or Without Funnel	With Yellow Print
98-1026	2 Gal Safety Can Type I	Red Metal	With or Without Funnel	With Yellow Print
98-1028	5 Gal Safety Can Type I	Blue Metal	With or Without Funnel	With Yellow Print
98-1029	5 Gal Safety Can	Yellow Metal	With or Without Funnel	With Black or Yellow Print
98-1030	5 Gal Safety Can Type I	Red Metal	With or Without Funnel	With Yellow Print



SPILL KIT

Spill Kit			
Part #	Size	Description	Components
98-1091 Build a Kit Combination <i>Available in Universal, Haz Mat only, or Oil Only</i>	5gl, 20gl, 55gl, & 95gl, Cotton Canvas Duffle Bag	We stock a wide variety of spill kit components to minimize damage and assist you with clean-up duties until professional help arrives. Build-A-Kit with any of the items below, including a large assortment of salvage drums and overpacks.	<ul style="list-style-type: none"> • Disposable Bag & Tie • Absorbent Pads • Universal Socks • Goggles • Gloves/Nitrile Gloves • Labels • Pillows • Emergency Response Guidebook • Poly Scoop



**DON'T SEE WHAT
YOU'RE LOOKING FOR?**

WE HAVE MANY OTHER SPILL & SAFETY
COMPLIANCE SOLUTIONS. CALL US!

ACCESSORY



Steel Drum - Accessory

Part #	Description
05-0910	3/4" Metal Sealing Cap
05-0912	3/4" Plastic Sealing Cap Snap On
05-0796	2" Plastic Sealing Cap
05-0908	2" Plastic Sealing Cap Crimp On
05-0911	2" Plastic Sealing Cap Snap On
05-0915	2" Metal Sealing Cap
05-0950	Combination Wrench For Tightening Bungs
06-1777	Drum Insert 55GI Hedliner 15ML Natural Pleats
06-1656	Drum Insert 30GI Ldpe 18-1/2" X 28-3/8" 0.20 Mil For Fiber
05-0769	Tamper Evident Plastic Sealing Cap 2" Samba
05-0908	Tamper Evident Plastic Sealing Cap 2"
05-0912	Tamper Evident Plastic Snap On Sealing Cap 3/4"
05-0950	Combination Bung Wrench For Tightening Bungs

Poly Drum - Accessory

Part #	Description
05-0769	Tamper Evident Plastic Sealing Cap 2" Samba
05-0908	Tamper Evident Plastic Sealing Cap 2"
05-0912	Tamper Evident Plastic Snap On Sealing Cap 3/4"
06-2700	70mm Natural (8 TPI) Screw Cap with FS 60 Rieke Flex Spout Installed
06-2750	70mm Screw Cap With 3/4" Reducer
06-2758	70mm Screw Cap With 3/4" Reducer Tamper Evident
06-2850	70mm Screw Cap Plain
06-2874	70mm Screw Cap With 3/4" Reducer With Viton Gasket
06-2760	51mm Screw Cap Black Plain
05-0950	Combination Bung Wrench For Tightening Bungs
06-2900	Faucet Natural 3/4" Threaded
06-3051	Dust Cover For 5Gal Cubitainer
06-2759	70mm Natural Screw Cap 3/4" Reducer Fitting
06-2704	70mm Screw Cap Natural Spout With Flex Spout Installed
06-2900	Flo-Rite Natural 3/4 Thread
06-2950	Floking Gold 2" Thread
06-3025	DKG Quick Serve Natural 3/4 Thread
06-3050	DKG Quick Serve Tap Natural 38mm

LEVER LOCK AND BOLT RING ASSEMBLIES
ARE AVAILABLE FOR PURCHASE



Plastic Pail Accessory

Part #	Size	Color	Description
06-1860	1/2 gallon	Natural	Topliner Cradle Insert Holds 1/2 Gal Can
06-1780	2 gallon	Natural	HDPE Pail Insert
06-1791	3.5 gallon	Natural	HDPE Pail Insert
06-1800	5 gallon	Natural	HDPE Pail Insert
06-1820	5 gallon	Natural	HDPE Pail Insert Anti-Stat
06-1805	5 gallon	Natural	HDPE Pail Insert
06-1858	1.25 gallon/5 quart	Natural	HDPE Pail Insert



Steel Pail Accessory

Part #	Description
08-0895	Anti-Glug Rieke Senior Flexspouts
05-0955	Crimping Tool For Rieke Senior Flexspout
08-2860	Manual Lid Closing Tool For 11-1/4" 16 Lug Covers
08-2865	Pneumatic Closing Tool For 11 1/4" 16 Lug Covers
08-2800	Leverlock Ring For Dish Cover 18 Gauge Powder Coated



Secure Shipping Accessory

Part #	Size	Type
12-3852	Half Pint	Can Clip
12-3850	Quart/Pint	Can Clip
12-3800	Gallon	Can Clip
12-3855	Pint	Armlock
12-3860	Quart/Pint	Armlock



Inner Seal for Oblong Can

Part #	Nozzle Size	Nozzle Brand
12-6600	1-1/8"	Beta
12-6450	1-1/4"	Alpha
12-6461	1-3/4"	Delta
12-6200	1-3/4"	International



Caps for Oblong Can

Part #	Nozzle Size	Nozzle Brand	Lining	Style
12-6710	1"	Delta	.045 Pulp And Aluminum Foil	Non Child Resistant
12-6250	1-1/4"	Alpha	.045 Pulp And Solvseal	Non Child Resistant
12-6405	1-1/4"	Alpha	.045 Pulp And Aluminum Foil	Non Child Resistant
12-6050	1-3/4"	International	.045 Pulp And Solvseal	Non Child Resistant
12-6052	1-3/4"	Delta	.045 Pulp And Solvseal	Non Child Resistant
12-6100	1-3/4"	International	.045 Pulp And Tinfoil	Non Child Resistant
12-6404	1-3/4"	Delta	.045 Pulp And Mf504	Child Resistant
11-3921	32mm	Rel	Unlined	Child Resistant
12-6155	1-3/4"	International	.050 F-217 Lining	Non Child Resistant
12-6254	1-3/4"	Delta	0.045 Pulp And Alum Foil	Non Child Resistant
12-6401	1-1/4"	Alpha	MF504 (Composite Of Aluminum Foil/Polyester)	Child Resistant
12-6402	1-1/4"	Alpha	MF504 (Composite Of Aluminum Foil/Polyester)	Non Child Resistant
12-6403	1-3/4"	Alpha	MF504 (Composite Of Aluminum Foil/Polyester)	Non Child Resistant



FLEXIBLE PACKAGING



Flexible Packaging

Flexible packaging is an exciting alternative to traditional, rigid packaging and offers many advantages:



Economical



**Improved Customer/
User Experience**



**Product Protection
& Preservation**

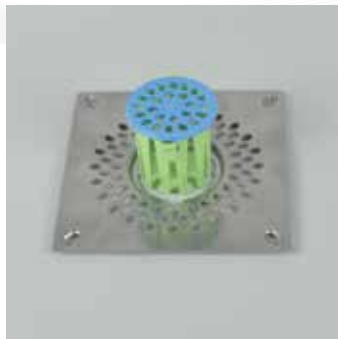


Sustainability



Shelf Appeal

INJECTION MOLDING



Injection Molding

Injection molding includes the following:

- 55 tons to 600 tons with robotic assistance
- Hot Stamping
- Sonic Welding and Sonic insertions
- Subassembly
- Technical Support and Consultation
- Polymer Selection
- Part Design & Engineering
- Tooling Design, Layout & Development
- Complete Project Management

THERMOFORMED PACKAGING



Thermoformed Packaging

Blisters

We offer custom-designed standard blister packs as well as folded flange blisters. Folded flange blisters provide you with a fully covered product area that is easily opened and closed without the need of heat sealing facilities. There are also dozens of stock Blister Boxes available in PVC and Recycled PETE that do not require any tooling charges.

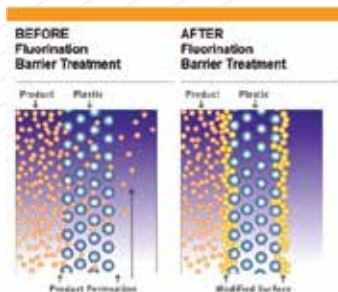
Clamshells

We can design a clamshell according to the specific needs of your product. We also have a large line of clamshells that can be inserted with a customized cavity, resulting in reduced tooling costs and leadtimes.

HARD TO HOLD

BARRIER ENHANCEMENTS FOR HARD TO HOLD PRODUCTS

We have bottles that are designed to accommodate your "hardest-to-hold products." These bottles are available with a barrier treatment; a post-manufacture process called **Fluorination**. Fluorination creates a permanent fluorocarbon barrier on all surfaces on the bottles, both inside and out. The bottles are treated at the highest process level available for containers and kept in stock at our Distribution centers. Larger pails and drums, as well as sprayers or closures can also be treated.



About Fluorination

Fluorination of plastic containers increases barrier properties. When exposed, the fluorine gas creates carbon fluorine bonding on the inside and outside surface area, in essence blocking the porous wall of plastic, helping to eliminate or reduce migration of aggressive chemicals.

HEAVY DUTY BOTTLES FOR HARD TO HOLD PRODUCTS

Our **heavy duty bottles** are designed to accommodate your most difficult products to package. The bottles are produced from high stress crack resistant, prime grade, high-density polyethylene resin. These bottles are available with a fluorine barrier treatment that creates a permanent fluorocarbon barrier on all surfaces on the bottle, both inside and out. The bottles are treated at the highest process level available and kept in stock. Our heavy duty bottle has 30 percent more resin than the industry standard. This assures you of a **heavier, stronger bottle**, which can be enhanced by the fluorine treatment to stand up to almost any "hard to hold chemical."

The bottles are treated at the highest process level available and kept in stock. Our heavy duty bottle has 30 percent more resin than the industry standard. This assures you of a heavier, stronger bottle, which can be enhanced by the fluorine treatment to stand up to almost any "hard to hold chemical."



Heavy Duty F-Style Bottles:
4 liter, 64 oz, 32 oz, 16 oz



Heavy Duty Round Bottles:
1 gal, 32 oz, 16 oz

Fluorination aids in the prevention of:

- Permeation Product weight loss
- Container discoloration
- Odor emission
- Flavor, fragrance and/or active ingredient loss
- Paneling and distortion of the container
- Softening of container
- Label blistering

Fluorination can be used for:

- Agricultural chemicals
- Automotive chemicals
- Household and industrial cleaners
- Food product flavor retention
- Paint Products
- Petroleum based products
- Solvents

Examples of solvents for which fluorination is effective:

- Carbon tetrachloride
- Cyclo-hexane
- Pentane
- Toluene
- Hexane
- Paraxylene
- Xylene
- Mesitylene
- Iso-octane
- Trichlorethylene
- 1,3,5 Trimethylbenzene

Fluorination reduces solvent and chemical permeation by **up to 1000 times!**

Available for use on HDPE, LDPE, & PP from our stock or custom made bottles.

We stock many sizes, styles, and treat levels with a variety of caps, including Teflon lined closures. Call our customer service department for details.

Markets for Heavy Gram Weight Bottles

We manufacture heavy duty bottles, up to 195 gram weight, for hard to hold products in many markets:

- General Chemicals
- Acid Material
- Janitorial/Sanitation
- Petroleum & Oil
- Home & Garden
- Household Cleaning
- Paint & Coatings
- Biotechnology

GUIDE TO PLASTIC RESINS

**POLYETHYLENE TEREPHTHALATE (PET)**

PET is one of several resins in the polyester family. The major raw materials used to manufacture PET bottles include ethylene glycol, terephthalic acid or dimethyl terephthalate and small quantities of additives such as catalyst and stabilizers. Bottles made from PET are injection blow molded, unoriented or injection stretch blow molded, biaxially oriented. PET bottles have outstanding clarity, good impact and scratch resistance, high gloss finish and good barrier properties. They are lightweight and safe compared to glass (no breakage on filling lines, in transit, retail stores and in homes). Containers manufactured with PET resin are ideal for packaging a wide range of food product, toiletries, cosmetics and household and pharmaceutical products. Each application should be tested to ensure that the product is compatible with the container.

**HIGH DENSITY POLYETHYLENE (HDPE)**

HDPE is the most widely used resin for plastic bottles. This material is economical, impact resistant, and compatible with a wide range of products (including acids and caustics) and provides a good moisture barrier. It is usually supplied in FDA approved food grade. When fluorine treated, HDPE becomes an effective package for solvents (aromatic hydrocarbons) and oxygen sensitive extracts. HDPE is naturally translucent and flexible. The addition of color will make HDPE opaque although not glossy. Adding extra weight to the bottle will yield a rigid container. HDPE is supplied surface-treated on a stock basis and lends itself readily to silkscreen decoration. While HDPE provides very good protection at temperatures below freezing, it cannot be used with products filled at over 180° F or products requiring a hermetic seal.

**VINYL / POLYVINYL CHLORIDE (PVC)**

PVC is naturally clear, has extremely good resistance to oils and very low oxygen transmission. It provides an excellent barrier to most gases, but is vulnerable to solvents. PVC is a semi-rigid material which, when produced on extrusion blow-molding equipment, can accommodate handled designs. Improvements in resin formulation have increased oxygen barrier properties and chemical resistance, with a 20-30% improvement in drop impact resistance. PVC exhibits low temperature resistance and will distort at 160° F. It is not compatible with hot filled products. Because it provides a good oxygen barrier, PVC is an excellent choice for salad oil, mineral oil, and vinegar. It is also commonly used for shampoos and cosmetic products.

**LOW DENSITY POLYETHYLENE (LDPE)**

LDPE is similar to HDPE in composition. It is less rigid and generally less chemically resistant than HDPE, but is more translucent. LDPE is used primarily for squeeze applications. LDPE is significantly more expensive than HDPE, but will yield a glossy bottle when produced in colors.

**POLYPROPYLENE (PP)**

Polypropylene is a naturally translucent material which provides contact clarity and an excellent moisture barrier. One major advantage of polypropylene is its stability at high temperatures (maximum temperature = 230-260° F); it is autoclavable and offers the potential for steam sterilization. PP's compatibility with high filling temperatures is responsible for its use with hot fill products such as pancake syrup. PP has an excellent chemical resistance, but provides poor impact resistance in sub-freezing temperatures. Produced in color, PP exhibits a glossy finish.

**POLYSTYRENE (PS)**

Styrene offers excellent clarity and stiffness at an economical cost. It is commonly used with dry products including vitamins, petroleum jellies and spices. Styrene does not provide good barrier properties and exhibits poor impact resistance. It can be screen printed without being flame treated and lends itself well to offset printing.

**OTHER**

Can be any combination of plastics. Usually one of the above plastics mixed with an additive or barrier plastic to enhance the properties of the final container.

Properties of Resins										
	Properties	Clarity	Impact Resistance	Rigidity	Abrasion Resistance	Heat Resistance	Low Temp. Impact Resistance	Water Vapor Resistance	Gas Barrier Resistance	Chemical Compatibility Concerns
Polyethylene (PE)	HDPE	Translucent	High	High	Very high	Moderate	High	High	High	Aromatic and halogenated hydrocarbons, strong oxidizers
	LDPE	Translucent	Very high	Moderate	High	Low	High	Moderate	Low	Aromatic and halogenated hydrocarbons, strong oxidizers
Polypropylene (PP)	PP	Translucent-clear	Moderate	Very high	High	High	Low	High	Moderate	Aromatic and halogenated hydrocarbons, strong oxidizers
PET	PETE	Clear	High	Moderate	Low	Low	Low	Moderate	Moderate	Acetone, ketones, acids and alkalis
	PETG	Glasslike Clear	High	High	Low	Moderate	Moderate	Moderate	High	Acetone, ketones, acids and alkalis
Polyvinyl Chloride (PVC)	PVC	Clear	Moderate-High	Moderate	Low	Low	Moderate-High	Moderate	Low	Aromatic and halogenated hydrocarbons, Esters
Polystyrene (PS)	PS	Glasslike Clear	Low	Very high	Low	Low	Very Low	Very Low	Very Low	Solvents, alcohols, acids, alkalis
Polycarbonate (PC)	PC	Glass Clear	Very High	Very high	Low	Very high	Very High	Very Low	Very Low	Acetone, ketones, alkalis, organic solvents, esters
Fluoropolymer	FPA/FPE	Clear	Very High	Moderate	Very high	Very high	High	Moderate	Moderate	Very high general chemical resistance
Nyloncopoly- mers (Ny6+HDPE)		Clear	Moderate	Moderate	Very high	High	Low	Very Low	High	High general chemical resistance
Acrylonitrile- copolymers	PAN	Clear	Moderate	Moderate	High	Low	Low	Moderate	Very High	Acetone and ketones

The above data is offered as general guidance only. Users of any packaging must account for particular characteristics of their product's formulation and distribution environment when making their own determination of the suitability of a packaging for purpose.

The resin code symbol (usually found molded into the bottom of the container) is intended only to identify the plastic material from which a container is made. Recyclability is ultimately determined by local ordinances and contracts governing waste disposal and recovery systems.

NECK FINISH DIMENSIONS

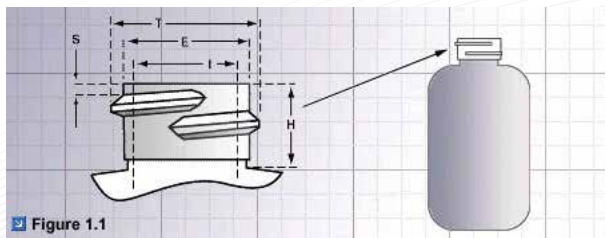


Figure 1.1

"I" DIMENSION

The inner diameter of the bottle neck. Specifications require a minimum "I" to allow sufficient clearance for filling tubes. Linerless closures, with a plug or land seal, and dispensing plugs and fitments require a controlled "I" dimension for a proper fit

"T" DIMENSION

The outside diameter of the thread. The tolerance range of the "T" dimension will determine the mate between bottle and closure.

"E" DIMENSION

The outside diameter of the neck. The difference between the "E" and "T" dimensions divided by two determines the thread depth.

"H" DIMENSION

The height of the neck finish. Measured from the top of the neck to the point where the diameter "T," extended down, intersects the shoulder.

"S" DIMENSION

Measured from the top of the finish to the top edge of the first thread. The "S" dimension is the key factor which determines the orientation of the closure to the bottle and the amount of thread engagement between the bottle and cap.

Common GPI/SPI Neck Finishes

400	410	415	425	430	2000
1 Thread turn	1.5 Thread turns	2 Thread turns, tall "H" dimension	2 Thread turns, narrow threads	Buttress finish: thick threads and a top bead (better seal, more application torque)	Lug finish: Non-continuous threads



Bottle Measurement



Bottle Measurement

How To Measure a Neck Finish

To find a cap's diameter, measure from one side of the inner wall to the opposite side. Calculate a bottle's neck finish by measuring the diameter of the outmost threads. The resulting millimeter measurement will be the "T" dimension.

Then, see how many times the threads pass one another to determine the finish. (ex. 24 mm "T" dimension with 1.5 thread turns = 24/410 neck finish)

DECORATION & LABEL OPTIONS

Not all decoration and labels options apply to all products. Please contact us for advice.

SLEEVE LABEL

Sleeve labeling is a decorated plastic that fits over and on plastic bottles. Sleeve labels, typically made from polyethylene or poly (vinyl chloride), are heat-shrinkable and may be held in place by raised edges above and below the label, or shrunk to conform to a shape that will hold them in place. Labels, which are supplied on a roll, are pulled into a labeler, cut, and slipped over the bottle. Sleeve labels are highly susceptible to heat. Caution must be used in shipping and storage to assure the physical properties are not altered.

Lyons Blow Molding and our other partner have the equipment to sleeve bottles on line so at the end of the production line the labeled bottles are packed in the shipping cartons already decorated.

SHRINK LABEL

Shrink labels consists of a plastic sleeve that is dropped over the container and shrunk by heat. Graphics applied to such a label must be distorted during printing in order to be legible after shrinking. PVC is a common material for this application although polypropylene, poly (ethylene terephthalate) and other plastics are also used.

Heat shrink sleeves can be made to go over many odd shapes and can even be designed to go over the cap and be perforated at the neck to create a tamper evident seal. The graphics that can be produced in both types of sleeves are far superior to any type of printing directly on the containers. The tamper evidence that a heat shrink label produces solves the problem of using a separated tamper evident band or requiring a custom tamper evident neck and cap feature. This type of label needs to be applied after the bottle is filled and capped, so it can only be done on the filling line.

PRESSURE SENSITIVE (PS) LABEL

A pressure sensitive label is a label, pre-coated with a pressure-sensitive adhesive and (usually) adhered to a release-paper carrier that requires only a brief application of pressure to affect a bond.

SCREEN PRINTING

This decorating method uses a metal or plastic mesh screen that has been masked or blocked off in the non-printing areas. The screen is placed over the object to be printed. Ink wiped across the screen will only pass through the remaining porous areas to create an image.

"S" DIMENSION

Measured from the top of the finish to the top edge of the first thread. The "S" dimension is the key factor which determines the orientation of the closure to the bottle and the amount of thread engagement between the bottle and cap.

LITHO PRINTING – FOR METAL CANS AND STEEL PAILS

Lithograph is the technique capable of printing metal/tinplate products and steel containers that utilizes 4 color process and straight line graphics on a combination of UV ink and traditional presses. White coat is a base of white coating that is applied to metal as a base for the printing to give the true appearance of the color to be achieved.

OFF-SET PRINTING

This printing medium is the transfer of ink from a sensitized plate, offset to a rubber blanket then transferred to the substrate. The equipment is a multi-station (up to eight) printing machine to print and/or coat up to six colors on to sheets or a fast-moving web.

HEAT TRANSFER

Heat Transfer is a process where the machine running the bottle installs full labels in line with the press. This allows the application of labels that would never previously be printable due to the colors and definitions.

LITHO LABELS

Litho Labels (short for Lithographic Label) are used for high end graphics on corrugated packaging printed on separate sheets of usually 70 # C1S paper. The process used to print litho labels is capable of printing higher line screens than flexographic processes can. This provides higher resolution graphics on corrugated packaging. The litho label can be process printed (Cyan, Magenta, Yellow and Black), PMS ink color matched with additional colors or both. The litho label is trimmed to a rectangular size, palletized and shipped to our dock. The litho label is fed through a machine that applies adhesive and places the label on the corrugated sheet. Labels that cover the entire corrugated sheet are called full label. Labels that do not cover the entire corrugated sheet are called spot labels.

FLEXOGRAPHY

Printing done directly onto the box. Flexography has an advantage over lithography in that it can use a wider range of inks, water based rather than oil based inks, and is good at printing on a variety of different materials like plastic, foil, acetate film, brown paper, and other materials used in packaging. Typical products printed using flexography include brown corrugated boxes, flexible packaging including retail and shopping bags, food and hygiene bags.

RIGID PLASTIC PACKAGING CONTAINERS (RPPC)

California's Rigid Plastic Packaging Container Act, passed in 1991, requires that every rigid plastic packaging container (RPPC) meeting the defining criteria as outlined in the regulation and containing a product offered for sale in California must meet one of several options designed to reduce the amount of plastic in the solid waste stream. Since its introduction in 1991, it has been periodically updated. The latest being a major update that came into effect January 1, 2013. In addition, several other states have also adopted similar regulations with even more considering them.

This fact sheet outlines what is and isn't an RPPC, who must comply with the law and an outline of compliance strategies.

WHAT IS A RIGID PLASTIC PACKAGING CONTAINER (RPPC)?

A rigid plastic packaging container:

- Is made entirely of plastic, except for lids, caps, labels, handles, hinges and other incidental elements made of non-plastic material
- Is capable of at least one closure (including but not limited to closure during the production or manufacturing process...
- Maintains essentially the same shape empty or full.
- For liquids, is sold or offered for sale as containing at least 8 fluid ounces but no more than 5 gallons of liquid as labeled. Or, as an alternative, the product manufacturer may also choose to use the measured equivalent volume of the packaging (the volume of material the package is capable of holding) in making this determination of inclusion in the 8 US fluid oz-5 US gallon range. For products sold by weight or item count, the capacity must be determined as the equivalent volume.

RPPCs are not:

- Plastic blister packaging that does not fully enclose the product. (Such as blister covers on fiberboard card stock.)
- Flexible packaging composed entirely of film plastic (as determined by ASTM D 6988:08)
- Any rigid plastic container that is not capable of containing at least 8 fluid ounces as determined by equivalent volume. However, a product manufacturer may include (at their choice) a rigid plastic container that is sold, or offered for sale, containing a liquid product filled with less than eight (8) US fluid ounces as labeled if the bottle has an equivalent capacity over eight 8 US fluid ounces.
- A rigid plastic container sold, or offered for sale, that contains more than five (5) US gallons of a liquid product as labeled. However, a product manufacturer may include (at their choice) a rigid plastic container that is capable of holding more than five (5) US fluid gallons, but is sold, or offered for sale, filled with liquid contents of five (5) US gallons or less as labeled.

- Rigid plastic containers holding products which are sold by weight or count having an equivalent capacity less than eight (8) US fluid ounces or over five (5) US gallons.

WHO MUST COMPLY?

The "Product Manufacturer", as defined in the regulation, is the party responsible for compliance. Product manufacture "means any person, partnership, association, corporation or any other entity that, through its own action or through contract or control, is primarily responsible for causing a product to be produced that is held inside of a rigid plastic packaging container and sold or offered for sale in California." This is defined as brand ownership; primary control or influence over the design of the product; and primary control or influence over the design specifications of the RPPC.

The revised RPPC regulation prescribes a two step compliance program including provisions for auditing and penalties for non-compliance of Product Manufacturers selling products in California that are subject to the regulation:

- Registration/Pre-Certification. When a company's products are identified as being sold or offered for sale in RPPC in California, the manufacturer will be notified by the California Department of Resources Recycling and Recovery (the Department). The product manufacturer will then be required to register as prescribed in 17945.1(a) of the regulation. In addition, the Department may also issue a Pre-Certification Notice. In this case the Department will notify any selected manufacturers that they may be requested to certify compliance as prescribed in 17945.1(b).
- Compliance Certifications. As prescribed in Section 179.45.2, when notified by the Department a product manufacturer will then be required to provide certification of compliance for the products and packaging covered by the regulation, including any exemptions and waivers. This includes any required Container Manufacturer Certifications prescribed in 17945.4.
- Auditing. Section 17947 prescribes provisions in the regulation to allow the Department to audit the compliance certifications.
- Section 17949 of the regulation prescribes a schedule of enforcement penalties for non-compliance. In addition, false or misleading compliance certification can be prosecuted by the California Attorney General as fraud under California criminal law.

HOW IS COMPLIANCE DETERMINED?

As of January 1, 2013 rigid plastic packaging containers sold or offered for sale in California are required to meet one of the following criteria:

CALIFORNIA PLASTIC RECYCLING LAW

For information on plastics, please visit
<http://www.calrecycle.ca.gov/Plastics/rppc>

- Be made from at least 25 percent Post Consumer Material (PCM).....
- Be recycled at a 45 percent recycling rate for: product associated, particular type or a single resin type RPPC. With these RPPC types and rates defined and demonstrated by approved methodologies in the regulation.
- Be "reusable" or "refillable" RPPCs as defined in the regulation.
- Be a "source reduced" RPPC as defined (10%). This option includes both RPPC weight reduction and/or product concentration. Any source reduction achieved by changing the rigid plastic packaging container to a non-rigid plastic container may be credited to other containers as part of the averaging method of compliance described in Section 17944(b).
- A product manufacturer may achieve compliance by averaging as prescribed in the regulation.
- Section 17944.1 also prescribes an "Alternative Container Compliance Method" based on use of PCM sourced from California.

ARE THERE ANY EXEMPTIONS FROM THE CERTIFICATION PROCESS?

Some RPPCs are exempt from the regulation.

These include:

- RPPC produced in or outside of California that are destined for shipment outside California and which remain with the products upon shipment.
- RPPC that contain drugs, medical devices, cosmetics, food, medical food, or infant formula as defined by the Federal Food, Drug, and Cosmetic Act.
- RPPC that contain toxic or hazardous products regulated by the Federal Insecticide, Fungicide, and Rodenticide Act.
- RPPC that are manufactured for the purpose of shipping hazardous materials and are prohibited from being manufactured with used material by federal packaging material specifications and testing standards set forth in Section 178.509 and 178.522 of Title 49 of the CFR, or are subject to testing standards set forth in Sections 178.600 to 178.609, inclusive, of Title 49 of the CFR, or to which recommendations of the United Nations on the transport of dangerous goods are applicable.
- Exemptions must be claimed as prescribed in Section 17946.5 of the RPPC regulation when a certification notice is received by a Product Manufacturer.

MUST EVERY RPPC MEET ONE OF THE COMPLIANCE CRITERIA?

It is not necessary for each RPPC to individually meet one of the compliance criteria. A company may achieve compliance

by "averaging" the recycling rates, the postconsumer content, the source reduction or the refill or reuse data of its containers.

An average may be calculated using either data specific to containers sold and recycled in California, or nationwide. Averaging may be based upon an entire product line or sublines, but it may only include RPPCs for which the same compliance criteria are claimed. Every RPPC must be included in the "average" or comply with one of the other criteria.

Disclaimer: This information is intended as a summary and should not be misconstrued as C.L. Smith offering legal or regulatory advice. Companies must read and understand the RPPC law in full and take appropriate action. C.L. Smith can field questions and offer compliance strategies for customer review.

FOR MORE INFORMATION:

For information on plastics, please visit
<http://www.calrecycle.ca.gov/Plastics/rppc>

CONSUMER PRODUCT SAFETY ALERTS



INFANTS & TODDLERS CAN DROWN IN LARGE BUCKETS

Large buckets and young children can be a deadly combination. According to the U.S. Consumer Product Safety Commission (CPSC) 10-40 children per year drown in buckets in the US. Almost all of the containers involved in these

incidents are 4-6 gallon buckets containing liquids. Most were used for mopping floors or other household chores. Many were less than half full. A child can drown in just a few inches of water. Children are naturally curious and easily attracted to water. At the crawling and pulling up stages while learning to walk, they can quickly get into trouble. CPSC believes that bucket drowning happens when children are left momentarily unattended, crawl to a bucket, pull themselves up, and leans forward to reach for an object or play in the water. Parents and caregivers who are using buckets for household chores are warned not to leave a bucket containing even a small amount of liquid unattended where a young child may gain access to it. A child can drown in the time it takes to answer a telephone.

We have the Child Warning Label applied to all our stock 4-6 gallon plastic pails. In the state of California it is required on all plastic or metal 4-6 gallon pails. [See: California Health and Safety Code Section 108625]

CONVERSION CHARTS

Metric Measures >> US Measures

1 Dram (dr) = 0.125 Ounces (oz)
1 Cubic Centimeter (cc) = .03 Ounces (oz)
1 Liter (l) = 2.1 Pints (pt)
1 Gram (g) = .035 Ounces (oz)
1 Kilogram (kg) = 2.2 Pounds (lb)
1 Millimeter (mm) = .039 Inches (in)

US Measures >> Metric Measures

1 Ounce (oz) = 8 Drams (dr)
1 Ounce (oz) = 29.57 Cubic Centimeters (cc)
1 Ounce (oz) = 29.57 Milliliters (ml)
1 Pint (pt) = .47 Liters (l)
1 Ounce (oz) = 28.35 Grams (g)
1 Pound (lb) = .45 Kilograms (kg)
1 Inch (in) = 25.4 Millimeters (mm)

Fluid Conversions

Drams	Ounces	CC/ML
1/4	1/32	.924
1/3	1/24	1.232
1/2	1/16	1.845
1	1/8	3.697
2	1/4	7.393
3	3/8	11.090
4	1/2	14.787
6	3/4	22.180
8	1	29.574

Quick Reference (Inches >> Millimeters)

1/32 = 0.8
1/16 = 1.6
1/8 = 3.2
1/4 = 6.4
3/8 = 9.5
1/2 = 12.7
5/8 = 15.9
3/4 = 19.1
7/8 = 22.2
1 = 25.4


Units of Capacity (Cubic Centimeters/Milliliters >> Ounces)

CC/ML	OZ	CC/ML	OZ
1 = .0338		40 = 1.3524	
2 = .0676		50 = 1.6905	
3 = .1014		60 = 2.0286	
4 = .1352		75 = 2.5358	
5 = .1691		100 = 3.3810	
6 = .2029		125 = 4.2263	
7 = .2367		150 = 5.0715	
8 = .2705		200 = 6.7620	
9 = .3043		250 = 8.4525	
10 = .3381		300 = 10.1430	
15 = .5072		400 = 13.5240	
20 = .6762		500 = 16.9050	
25 = .8453		750 = 25.3575	
30 = 1.0143		1000 = 33.8100	

Liquid Measure Conversions

	Minims	Drams	Ounces	Gills	CC	Liters
1 Dram	60	1	0.125	0.03125	3.69661	0.0037
1 Ounce	480	8	1	0.25	29.5729	0.0296
1 Gill	1920	32	4	1	1	0.001
1 Milliliter	16.231	0.2705	0.0338	0.0084	1	0.001
1 Liter	16231.1	270.518	33.8147	8.4536	1000	1
1 Pint	7880	128	16	4	473.167	0.4731
1 Imperial Pint	-	-	19.21	4.803	568.095	0.588095
1 Quart	-	-	32	8	946.333	0.946333
1 Imperial Quart	-	-	38.43	9.607	1136.486	1.1365
1 Gallon	-	-	128	32	3786.331	3.7853
1 Imperial Gallon	-	-	153.72	38.430	4545.946	4.545946

HOW TO READ A UN MARKING

	1H1/Y1.5/100/xx/USA/M5886
1	TYPE OF PACKAGE 1. Drums/Pails 3. Jerricans 5. Bags 2. Barrels 4. Boxes (corrugated) 6. Composite Packagings
A	MATERIAL OF CONSTRUCTION A. Steel B. Aluminum C. Wood G. Fiber (corrugated) H. Plastic
1	CATEGORY WITHIN TYPE 1. Closedhead 2. Openhead
Y	PACKAGING GROUP FOR WHICH CONTAINER WAS TESTED X. for Packaging Group I, II, III • Packaging Group I: Great Danger (high hazard level) Y. for Packaging Group II and III • Packaging Group II: Medium Danger (medium hazard level) Z. for Packaging Group III • Packaging Group III: Minor Danger (low hazard level)
1.5	DENSITY OR SPECIFIC GRAVITY OF MATERIAL PACKED (single packagings for liquids) OR . . . For packaging intended for Solids or for combination packagings, this marking will indicate the maximum gross mass (weight) in kilograms (for pounds multiply times 2.2)
100	HYDRAULIC PRESSURE IN KILO-PASCAL (kPa) (applies to liquid) OR . . . For packaging intended for Solids or for combination packagings, an "S" in upper case will follow the gross mass. Example:UN4G/Y25/S/04/USA/M5586 (this is an example marking for a fiber board box rated for a gross mass of 25kg/55lb.)
XX	YEAR OF MANUFACTURE
USA	COUNTRY WHERE ITEM WAS MANUFACTURED
M5886	CODE FOR UN CERTIFYING AGENCY OR MANUFACTURER

Information contained in this catalog is subject to change without prior notice and is dependent on content received by product manufacturers. The majority of items shown are kept in stock in one or more warehouse locations and are available for immediate shipment. Some items, however, are featured but not stocked and depending on minimums can be requested, lead times may apply.



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