C.L. Smith
a Novvia Group Company

YOUR PARTNER IN PACKAGING
manufacturer | un certifier | designer | distributor

![C.L. Smith — a Novvia Group Company]

WE ARE C.L. SMITH

Real People. Real Passion. Real Performance.

We have over 45 years of experience with hundreds of companies like yours. It is our mission to exist for our customers. We are driven with the goal to do everything within our power to make your life easier. We are proudly all in for you!

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 facility; and we stock over 3,000 products.

Novvia Group is a leader in high-quality packaging solutions and customized services, with domestic and international customers across a variety of industries. Through its family of dynamic companies, Novvia has set a new industry standard as a national stocking distributor with a comprehensive suite of containers and supplies, trusted local relationships, and 40+ years of best-in-class customer service.

Your Partner in Packaging Solutions

LYONS BLOW MOLDING • HAZPlus® • C.L. SMITH COMPANY

FAMILY OF SOLUTIONS

Lyons Blow Molding
a division of C.L. Smith

- Shorter runs & reduced lead times
- Industry's highest quality standards
- New, standardized, state-of-the-art equipment
- Dedication to lean
- Customized enhancements & varieties
- Sustainable options

HAZPlus®
a division of C.L. Smith

- On-site UN performance oriented package testing facility
- Turn-key services: design, test, certify, & manufacture
- On-site regulatory reviews by industry experts
- Recertification management for proactive compliance

CustomDesigns

- Exclusive molds & bottle designs
- Collaboration to differentiate your product
- In house design team
- 3D CAD modeling & rapid prototyping
- Quick turnaround for speed to market

Container Distributor

- Dedicated account management
- Our buying power allows for competitive pricing
- 13 distribution sites for customer stocking programs
- Just-in-time deliveries

COMMITMENT

Our Difference:

Founded in 1975, and privately owned until 2020, C.L. Smith is a 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; over 45 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.

Making your life easier:

- 100% Customer Focused
- Long Term Partnerships
- Flexible & Easy to Work With
- Committed to Quality
- Investing in Value-Add Services
- Competitive Pricing
- Specialized Solutions
  - Manufacturing
  - UN Certifier
  - Full Line Distributor

C.L. Smith Values

| Authentic	Passionate	Dedicated
Trust	Collaborative	Best in Class
Sense of Urgency	Focused on Adding Value	Service to Others

MARKETS SERVED

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 over four decades.

Aerospace | Agricultural | Automotive | Battery & Electronics | Biotechnology | Cannabis | Chemicals (Industrial & Household)

Construction | Contract fillers | Environmental | Food & flavorings | Healthcare | Home & Garden | Janitorial

Sanitation | Paint & Coatings | Pharmaceutical/Nutracueutical | Personal Care | Petroleum & Oil | Pyrotechnics

LOCATIONS

With headquarter locations in St. Louis, Missouri we serve customers coast-to-coast. Our network of warehouse & distribution centers have over 3,000 containers and related packaging items in stock and carry millions worth of inventory. We offer customers stocking programs that save money on storage expenses and provide the convenience of just-in-time delivery.
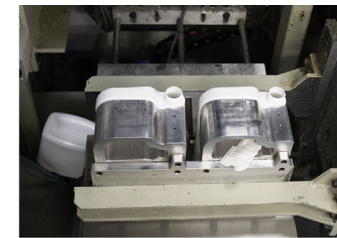
- St. Louis, Missouri (2 Locations)
- Berkeley, Missouri
- Kansas City, Missouri
- Little Rock, Arkansas
- Chicago, Illinois
- Indianapolis, Indiana
- Springfield, Missouri
- Memphis, Tennessee
- Houston, Texas
- Denver, Colorado
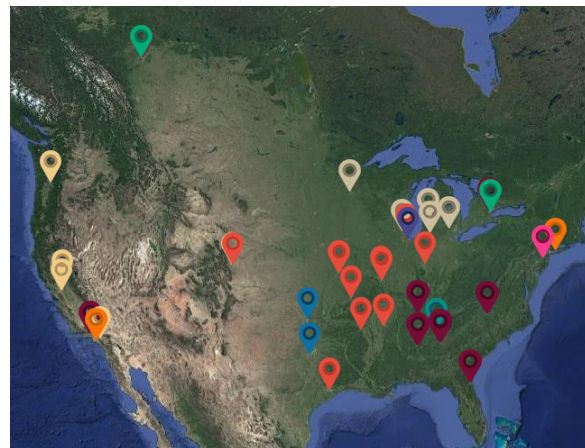
SOLUTIONS

CUSTOM BOTTLE MANUFACTURER | TURNING YOUR 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 32 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 are proudly all in for you!

Lyons Blow Molding — a division of C.L. Smith

MANUFACTURING & FINISHED GOODS STORAGE

- 18 Production Lines
- Extrusion Blow Molding/Shuttle
- Multiple Sizes 0.5oz – 10L
- Flexible Quantities & Lead Times

FLEXIBILITY

- Flexible Quantities & Lead Times
- Assorted Packaging Options
- Bulk, Trays, Bins, Re-Shippers
- Custom, Stock, & UN Performance Rated Containers
- Multiple Colors & View Stripe Capabilities
- In-Line Sleeving Decoration
- GFSI IFS PACsecure Food Safety Certification

PRODUCTION

- Operation 24 hours/ 4 days week
- Capability 55 MM Units Annually
- 115 Employees (Management, Operations, Quality Materials, Shipping/Receiving

QUALITY CONTROL

- Infinity QS – SPC (Statistical Process Control) Technology
- Visual System Inspection, Leak Detection, Visual, Dimensional, Functional, & Destructive Testing

CONTAINER MANUFACTURING & DISTRIBUTION

As a Packaging Distributor 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/Silk-screen
- Glass bottles & jars
- Closures & sprayers
- Plastic and steel pails
- Poly and steel drums
- 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
- Heavy Duty / Heavy Gram Weight Specialty Bottles

OUR SOLUTIONS

HAZARDOUS MATERIALS PACKAGING | TOTAL COMPLIANCE CONFIDENCE

HAZPlus® is an industry leader in UN Certified packaging; we design, test, certify and manufacture hazardous materials packaging for a one-stop, seamless experience in accordance with UN packaging standards. With 20 years of experience, our hazardous materials packaging specialists will help you develop an effective compliance protocol and give you peace of mind.

PACKAGE DESIGN	UN SELF-CERTIFIER	MANUFACTURER
Custom UN Packs Hazardous Materials Experts	On-Site Testing UN/ISTA Testing Lab Automated Re-Certification Process	Stock Packaging UN Manufactured Bottles

Our on-site UN Certified Package Testing Lab provides performance testing to certify compliance on stock and custom packaging. We accept responsibility to assure EACH package is capable of passing the prescribed test. 49 CFR 178.601 (b). Package documentation and closing instructions are provided with each configuration, along with pro-active re-certification and renewal processes.

PACKAGING STAINABILITY

We rely on our company culture to garner the strength needed to make stainability an everyday way of life. As a packaging & container supplier, through our long-term values, we have responsibly impacted our surroundings, not just in business, but also in the socioeconomic environment. By managing our impact, we are able to keep our costs low, manage risks, and strengthen external relations. Our commitment to stainability is validated by EcoVadis with a silver award in our initial assessment as a corporate social responsible company. We are proud to be in the top 10% of companies rated worldwide by the EcoVadis stainability methodology.

FOOD SAFETY PACKAGING

We are proud to be IFS PACsecure certified for all your food packaging needs. IFS PACsecure is a GFSI (Global Food Safety Initiative) recognized food safety certification program. The IFS program has been assessed and successfully benchmarked against GFSI requirements.

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METAL CANS

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SAFETY & SPILL CONTAINMENT

ACCESSORIES

BOSTON ROUND

Boston Round					
Part #	Size	Finish	Color	Material	Pack
09-3973	2 ounce	20-410	Clear	PET	Bulk Box
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
09-6443	8 ounce	24-410	Clear	PET	Bulk Box
09-6444	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

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.

BULLET

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

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.

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
09-4288	12 ounce	38-400	Clear	PET	Bulk Box
09-4303	12 ounce	38-400	Clear	PET	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
09-2310	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

NEED ASSISTANCE?
CALL AN EXPERT
800-264-1202

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 themselves that all products purchased are compatible with the product being packaged.

DECANTER

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
09-2415	32 ounce	28-400	Ring	Natural	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

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.

DOSING & DISPENSING

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 Single Neck	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

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

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

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
09-1760	64 ounce	38-400	Natural	HDPE	Tray
09-1833	160 ounce	110-400	Clear	PVC	Bulk Box
09-1036	1 gallon	38-400	White	HDPE	Bulk Box
09-1927	1 gallon	89-400	Clear	PVC	Bulk Pallet
09-5560	1 gallon	38-400	Black	HDPE	Tray
09-1501	4 liter	38-400	Black	HDPE	Bulk Box
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
09-7412	10 liter	63-485	Natural	HDPE	2-In UN4G/Y32.7/S

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
09-1667	1 gallon	63-400	White	HDPE	Bulk Pallet
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 57

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your partner in packaging solutions   contact us today: 800.264.1202   proudly all in for you   visit us at : www.clsmith.com   11

INDUSTRIAL ROUND & SQUARE

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
09-1001	1 gallon	38-400	Natural	HDPE	4-In	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
09-9787	1 gallon	38-400 TE**	Natural	HDPE	Bulk Box	130
09-9820	1 gallon	38mm TE**	Natural	HDPE	Bulk Box	150
09-9868	1 gallon	38-400	White	HDPE w/25% PCR	4-In	120
09-9877	1 gallon	38-400	Natural	HDPE w/25% PCR	4-In	120
09-1153	1 gallon	38-400	Natural	HPDE w/25% PCR	Tray	150
09-2001	1 gallon	38-400 TE**	Natural	HDPE	4-In	120
09-9898	1 gallon	38-400	Natural	HDPE	4-In, UN4G/Y25.8/S	150
09-9900	1 gallon	38-400 TE**	Natural	HDPE	4-In, UN4G/Y.21.3/S	130
09-9964	1 gallon	38-400 CR*	Natural	HDPE	4-In, UN4G/Y21.3/S	130
09-9776	4 liter	38-400	Natural	HDPE	Tray	150
09-9893	4 liter	38-400	Natural	HDPE	Bulk Box	150
09-9895	4 liter	38-400	Blue/White	HDPE	Bulk Box	150
09-1937	4 liter	38-439	Natural	HDPE	Bulk Box	180
09-9989	4 liter	38mm TE**/Hoffer Neck	Blue/White	HPDE w/25% PCR	Bulk Box	130
09-9990	4 liter	38mm ***NBO Hoffer Neck	Natural	HDPE	Tray	133
09-9999	4 liter	38mm TE**/Hoffer Neck	Natural	HDPE	4-In	135

*CR = Child Resistant   **TE = Tamper Evident   ***NBO = Non Back-off

Industrial Square						
Part #	Size	Finish	Color	Material	Pack	Gram Weight
09-9865	1 gallon	38-400	Natural	HDPE	Bulk Palletized	130
09-9870	4 liter	38-400	Natural	HDPE	Bulk Box	150
09-9875	4 liter	38-400	White	HDPE with 25% PCR	Bulk Palletized	150
09-5565	4 liter	38-400	Natural	HDPE	Bulk Box	150
09-1268	1 gallon (dairy bottle)	38-400 NEPCO Finish	Natural	HDPE	Bulk Bag	65

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

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.

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.

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 57.

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
09-4153	16 ounce	28-410	Clear	PET	Domed	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

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

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.

WIDEMOUTH BOTTLE / JAR

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
09-4800	8 ounce	45 mm	Natural	PP	Bulk Box/Unlined Cap Included
09-4150	16 ounce	89-400	White	HDPE	Bulk Box
09-4160	16 ounce	89-400	Natural	HDPE	Bulk Box
09-4187	16 ounce	89-400	White	PP	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
09-2845	32 ounce	89-400	Natural	HDPE	Bulk Box
09-3152*	32 ounce	89-400	Natural	HDPE	Bulk Box
09-2032	40 ounce	100-400	White	HDPE	Bulk Box
09-1861	64 ounce	100-400	White	HDPE	Bulk Box
09-1640	1 gallon	110-400	Natural	HDPE	Bulk Box
09-1642	1 gallon	110-400	White	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

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.

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
09-4950	500 cc	53-400	Natural	HDPE	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
09-4135	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.

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

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WIDEMOUTH LABWARE

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

Also Available

Size	3.5oz - 32oz
Material	PP, PET, CO-PET
Neck Finish	43-63mm
Color	Clear, Natural

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 Handle	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
Tub	09-8046	16 ounce	No Handle	Natural	HDPE
Tub	09-7047	16 ounce	No Handle	White	Copoly PP
Lid	09-7040	16 ounce	n/a	White	PP
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
Tub	09-8045	32 ounce	No Handle	Natural	HDPE
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	No Handle	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	PE
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

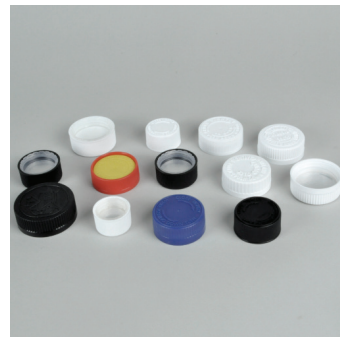|	
Size	4oz - 3gl
Material	HDPE, PP, Co-Polymer
Lid Option	Recessed, Flat, Snap-on or Pry-off
Color	Natural, White Custom Colors Available
Styles	Round, Square, Rectangular
Handle Options	No Handle, Metal, Plastic

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

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EXPERT
800-264-1202

CHILD RESISTANT CLOSURE - PUSH DOWN & TURN

Child Resistant Closure - Push Down & Turn

Part #	Finish	Texture	Color	Liner
11-1168	20-400	Ribbed	Black	Heatseal for PVC
11-1171	20-400	Ribbed	Black	Heatseal for PET/PVC
11-2152	24-400	Ribbed	Black	Heatseal For PET
11-2157	24-400	Ribbed	Black	Dispense-a-seal for PET
11-2164	24-400	Ribbed	White	Heatseal for HDPE
11-2400	28-400	Ribbed	White	Foam
11-2450	28-400	Ribbed	White	Heatseal for HDPE
11-3846	33-400	Ribbed	Black	Heatseal for PVC
11-3894	33-400	Ribbed	White	F-217
11-4109	38-400	Ribbed	White	Heatseal for HDPE
11-4111	38-400	Ribbed	White	F-217 vented pin holes
11-4116	38-400	Ribbed	White	F-217 vented foam lined
11-4128	38-400	Ribbed	Black	F-217 vented
11-4600	38-400	Ribbed	White	F-217
11-4618	38-400	Ribbed	White	F-217 and PS-22
11-4629	38-400	Ribbed	Orange	Foam
11-4667	38-400	Ribbed	Black	F-217 foam lined
11-4675	38-400	Ribbed	White	Heatseal for PET
11-4601	38-400	Ribbed	White	PV

Also Available

Neck Finish	18mm - 53mm
Material	PP
Color	White, Black Custom Colors Available
Outside Texture Options	Ribbed
Liner Options	Foam, Heat Seal, Pressure Sensitive, Pulp Vinyl, Others

Child Resistant Calibrated Dropper

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

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
11-4290	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

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

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

CONTINUOUS THREAD CLOSURE

Continuous Thread Closure

Part #	Finish	Texture	Color	Liner
11-1162	20-400	Ribbed	White	Heatseal Lined for PET
11-1975	20-410	Ribbed	White	F-217 Foam Lined
11-1850	24-410	Ribbed	White	Foam Lined
11-1977	24-410	Ribbed	White	Heatseal Lined
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
11-2755	28-400	Ribbed	White	Heatseal Lined for PP
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
11-3856	33-400	Ribbed	White	Foam Lined
11-3876	33-400	Ribbed	White	Heatseal Lined for PP
11-3883	33-400	Ribbed	White	Unlined
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
11-4605	38-400	Ribbed	White	Lift N Peel
11-4611	38-400	Ribbed	Black	PS-22 Lined
11-4226	38-439	Ribbed	White	Heatseal Lined for HDPE
11-5327	43-400	Ribbed	White	Heatseal Lined
11-5743	58-400	Ribbed	White	F-217 Foam Lined
11-5748	58-400	Smooth	Black	F-217 Lined
11-5763	58-400	Ribbed	White	Heatseal Lined for PP
11-6251	63-400	Ribbed	White	Heatseal Lined for PP
11-6350	63-485	Ribbed	White	Heatseal Lined Foilseal
11-6362	63-485	Ribbed	Red	Heatseal Lined
11-6420	63mm	Ribbed	White	Foam Lined
11-63.74	63-485	Ribbed	White	Heatseal Lined for HDPE
11-6425	63-485	Ribbed	White	Foam Lined
11-6455	63-485	Ribbed	Blue	F-217 Foam Lined
11-6458	63-485	Ribbed	Red	F-217 Foam Lined
11-6478	70-400	Ribbed	White	Unlined
11-6493	70-400	Ribbed	White	PV Lined
11-7026	89-400	Ribbed	White	PV Lined
11-7030	89-400	Ribbed	White	F-217 & PS-22 Lined
11-7050	89-400	Ribbed	White	F-217 Lined
11-7088	89-400	Ribbed	White	Heatseal Lined For PP
11-7096	89-400	Smooth	White	Heatseal Lined
11-7126	100-400	Ribbed	White	F-217 Lined
11-7177	110-400	Ribbed	White	Unlined
11-7205	120-400	Ribbed	White	Foam Lined
11-7215	120-400	Ribbed	White	F-217 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

BLACK PHENOLIC CAP

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
11-5505	48-400	Smooth	Black	Disc Lined
11-5632	53-400	Smooth	Black	P/RVTLF Lined
11-5810	58-400	Smooth	Black	PVLF Lined
11-7100	89-400	Smooth	Black	PVLFLined
11-7110	89-400	Smooth	Black	Disc Lined PE

Also Available

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

SHAKER & SPICE CAP

Shaker & Spice Cap						
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

DISC TOP / FLIP TOP / SNAP TOP

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
11-3730	Flip Top	28-400	Ribbed	White	Unlined	3mm Orfice
11-3800	Flip Top	28-410	Ribbed	White	Unlined	3X6mm Orifice
11-5055	Snap Top	20-410	Ribbed	Black	Lined	.25mm Orfice

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

STARTING A NEW PROJECT?

- CALL US FOR IDEAS! -

DISPENSING CLOSURE

Dispensing Closure						
Part #	Style	Finish	Texture	Color	Liner	Orifice/Features
11-0917	Dropper	20mm	NA	Natural	NA	0.02 Controlled Tip
11-1001	Dropper Overcap	20-410	NA	White	Unlined	NA
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
11-1705	Push-Pull	28-400	Ribbed	White	Unlined	4 Hole 28D4H
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

Ask us about 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

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.

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

TRIGGER SPRAYER

Trigger Sprayer

Part #	Model	Finish	Diptube	Color	Output/Features
11-3100	GB100	28-400	9.25"	Blue/White	1.0cc Shipper Sprayer
11-3150	GB100	28-400	9.25"	Red/White	1.0cc Shipper Sprayer
11-3175	GB100	28-400	9.25"	White/White	1.0cc Shipper Sprayer
11-3327	3317CLS	28-400	9.5"	Red	0.75cc Spray/Off/Stream
11-3450	GB3001	28-400	9.25"	Blue/White	3cc Shipper Sprayer
11-3494	TS3	28-400	9.84"	Red/White	1.33cc Spray/Stream
11-3116	SGBWM	45-400	8.4"	Red/White	1.0cc
11-3118	SGBWM	45-400	8.4"	White	1.0cc
11-3119	SGBWM	45-400	8.4"	Green/White	1.0cc
11-3127	GB921	45-400	8.6"	White	1.1ml Foamer 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

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
11-2367	24-410	5.209"	White	No	1.6ml
11-2368	24-410	5.209"	White	No	1.6ml
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
11-4700	38-400	Ribbed	White	PV Lined
11-5500	45-400	Ribbed	Gold	Plastisol Lined
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
11-6758	70-G-450	Ribbed	Black/White	Plastisol Lined
11-6900	89-400	Ribbed	White	PV Lined
11-7160	110-400	Ribbed	White	PE 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

NEED ASSISTANCE?
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800-264-1202

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.

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.

BRUSH / DAUBER CAPS

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 themself that all products purchased are compatible with the product being packaged.

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

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
03-1690	275 gallon	Steel	6"	2" Ball	Remanufactured	UN31HA1/Y/ rated for 58KG/70kPa
03-1408	330 gallon	Metal	6"	2" Ball	New	UN31HA1/Y/ rated for 64kg/100kPa
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

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

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	NA	NO	Fits bulk bag 36x36x50"

NEW STEEL DRUM - CLOSEDHEAD

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
05-1002	16 gallon	Black	Unlined	2"X 3/4"	1A1/Y1.6/200
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
02-1223	55 gallon	Red	Lined	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
05-1651	55 gallon	Black/White	Lined	2" X 3/4"	1A1/X1.8/300
05-1671	55 gallon	Black	Lined	2" X 3/4"	1A1/X1.8/300
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
05-8838	55 gallon	Red/White	Unlined	2" X 3/4"	1A1/Y1.8/300
05-8844	55 gallon	Blue	Unlined	2" X 3/4"	1A1/Y1.8/300
05-8855	55 gallon	Blue	Lined	2" X 3/4"	1A1/X1.2/300
05-8856	55 gallon	Black	Lined	2" X 3/4"	1A1/X1.2/300

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

* This comes with a 2" side bung

RECONDITIONED STEEL DRUM - CLOSEDHEAD

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.

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

NEW STEEL DRUM - OPENHEAD

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
05-1016	24 gallon	Blue	Rust Inhibitor	None	Not Rated	Crimp On
05-1104	20 gallon	Black	Rust Inhibitor	None	1A2/Y1.2/100	Bolt Ring
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
05-1262	55 gallon	Black	Rust Inhibitor	2" X 3/4"	1A2/Y1.8/150	Bolt Ring & Agitator
05-1400	55 gallon	White	Lined	2" X 3/4" Nylon	1A2/Y1.4/100	Nylon Fitting Bolt Ring
05-1407*	55 gallon	Black/Gray	Lined	2" X 3/4"	1A2/Y1.4/100	Bolt Ring
05-1408*	55 gallon	Black/White	Lined	2" X 3/4"	1A2/Y1.4/100	Bolt Ring
05-1551	55 gallon	Black	Lined	2" X 3/4"	1A2/Y1.8/150	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
08-8026	55 gallon	White	Lined	2" X 3/4" X 2"	1A2/Y1.6/100	Bolt Ring
05-8032	55 gallon	Black/White	Lined	2" X 3/4" Nylon	1A2/Y1.6/150	Square Back Bolt
05-8414	55 gallon	Black/ White	Rust Inhibitor	None	1A2/X300/S	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
05-8829	55 gallon	Blue	Unlined	2" X 2"	1A2/Y1.2/100	Bolt Ring
05-8835	55 gallon	Blue/White	Unlined	2" X 3/4" X 2"	1A2/Y1.5/100	Bolt Ring
05-8836	55 gallon	Red/White	Unlined	2" X 3/4" X 2"	1A2/Y1.4/100	Bolt Ring
05-8849	55 gallon	Black/White	Unlined	2" x 3/4"X 2"	1A2/Y1.5/100	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	None	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

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

RECONDITIONED STEEL DRUM - OPENHEAD

Reconditioned Steel Drum - Openhead						
Part #	Size	Color	Lining	Fitting	UN Rating	Ring Style/Features
04-1003	55 gallon	Black/White	Lined	2" X 3/4"	1A2/Y1.2/100	Bolt Ring
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.

Drum options come with different linings, fittings and closing devices.

More Drum options for Safety & Spill Containment (see pages 51-53)

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

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

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
06-1500	15 gallon	Blue	Round	2" NPT & 2" Buttress	Single Handle	1H1/Y1.4/100
06-1510	15 gallon	Natural	Round	2"NPE & 3/4"	No Handle	1H1/Y1.8/100
06-1512	15 gallon	Natural	Round	2" NPT & 3/4"	Single Handle	1H1/Y1.8/100
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
06-1005	55 gallon	Natural	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
06-1021	55 gallon	Natural/White	No Fitting	Lever Lock	1H2/Y250/S
06-1145	55 gallon Nestable	Blue	No Fitting	Lever Lock	1H2/Y140/S
06-1154	55 gallon	Blue	2" NPT Fitting	Bolt Ring	1H2/Y250/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
06-1177	57 gallon	Blue	2" NPT & 3/4" Buttress	Lever Lock	1H2/Y1.2/100
06-1187	57 gallon	Blue/Black	2" NPT & 3/4" Buttress	Lever Lock	1H2/Y250/S
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 65 – How to Read a UN Marking

POLY DRUM - SMALL

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

Poly Tighthead Pail - Small

Part #	Size	Color	Shape	Fittings Size	Handle	UN Rating
06-2000	5 gallon	Natural	Square	70mm Attached Cap Vented	Molded	4G/Y30/S
06-2180	5 gallon	Blue	Rectangle	70mm Screw Nozzle TE	Swing	1H1/Y1.8/100
06-2190	5 gallon	Natural	Square	70mm Screw Nozzle; 28mm back vent	Molded	3H1/Y1.8/100
06-2166	5 gallon	Natural	Square	63mm Flexspout Rieke Opening	Molded	3H1/Y1.8/100
06-2160	5 gallon	Natural	Square	70mm Screw Nozzle	Molded	3H1/Y1.8/100
06-2227	5 gallon	Natural	Rectangle	70mm Screw Nozzle; 28mm back vent	Swing	3H1/Y1.8/100
06-2150	5 gallon	Natural	Round	70mm Screw Nozzle	Swing	1H1/Y1.8/100
06-2154	5 gallon	White	Round	70mm Screw Nozzle	Swing	1H1/Y1.8/100
06-2200	5 gallon	Natural	Round	63mm Flexspout Rieke Opening; Dust Cover	Swing	1H1/Y1.8/100
06-2275	5 gallon	White	Rectangle	70mm Screw Nozzle	Swing	3H1/Y1.8/100
06-2280	5 gallon	Natural	RST	70mm Screw Nozzle	Molded	
06-2282	5 gallon	Natural	Square	70mm Screw Nozzle	Integrated	3H1/Y1.8/100
06-2285	5 gallon	White	Square	63mm RFO Rieke	Integrated	3H1/Y1.8/100
06-2291	5 gallon	Black	Square	70mm Screw Nozzle 21/24mm vent plug	Molded	3H1/Y1.8/100
06-2296	5 gallon	Natural	RST	21mm Screw Nozzle; Tamper Evident	Integrated	3H1/Y1.8/100
06-2299	5 gallon	Natural	Rectangle	70mm Screw Nozzle Tamper Evident	Integrated	3H1/Y1.8/100
06-2244	20 liter	Blue	Square	22mm Rieke Prep; Dust Cover	Molded	3H1/Y1.8/100
06-2398	20 liter	Natural	Square	Screw Nozzle; SC76TE (6TPI)	Integrated	3H1/Y1.8/100
06-2130	6 gallon	Blue	Rectangle	70mm Screw Nozzle; SC76TE (6TPI)	Swing	3H1/Y1.8/100
06-2136	6 gallon	Blue	Square	70mm Screw Nozzle	Swing	3H1/Y1.8/100
06-2137	6 gallon	Blue	Rectangle	63mm Flexspout Opening	Swing	3H1/Y1.8/100
06-2216	6 gallon	Natural	Square	70mm Screw Nozzle	Molded	3H1/Y1.8/100
06-2283	6 gallon	Natural	Square	70mm Screw Nozzle	Integrated	3H1/Y1.8/100
06-2302	6 gallon	Blue	Square	63mm Flexspout Rieke Opening	Molded	3H1/Y1.8/100

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FIBRE DRUM

DRUM -ACCESSORY

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

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

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 themself that all products purchased are compatible with the product being packaged.

VIEW OUR CLOSEOUTS & SPECIALS!
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Steel Drum - Accessory	
Part #	Description
05-0910	3/4" Metal Sealing Cap
05-0912	3/4" Plastic Sealing Cap Snap On
05-0797	3/4" Plastic Sealing Cap
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 55Gl 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

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 Custom Colors Available
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 63.

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
07-1005	1 gallon	Black	Metal	65
07-1103	2 gallon	White	Metal	70
07-1100	2 gallon	White	Plastic	65
07-1124	2 gallon	White	Plastic	65
07-1126	2 gallon	White	Metal	70
07-1152**	2 gallon	White	Metal	70
07-1200	2 gallon	Black	Metal	70
07-1010	3.5 gallon (square)	White	Plastic	60
07-1405	3.5 gallon	Black	Metal	90
07-1350	3.5 gallon	White	Metal	90
07-1450	4.25 gallon*	Natural	Metal	90
07-1646	5 gallon*	White	Metal	90
07-1647	5 gallon*	White	Metal	90
07-1711	5 gallon*	Black	Metal	90
07-1713	5 gallon*	Black	Plastic	90
07-1715**	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
07-1792	5 gallon*	Yellow	Metal	90
07-1985	5 gallon*	White***	Metal	90
07-1986	5 gallon*	White***	Metal	90
07-1987	5 gallon*	White***	Metal	90
07-1988	5 gallon*	White***	Metal	90
07-4295	5 gallon*	Orange	Metal	90
07-1806	6 gallon*	White	Metal	90
07-1810	6 gallon*	Red	Metal	90
07-1811	6 gallon*	Blue	Metal	90
07-1812	6.5 gallon* (square)	White	Plastic	90

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.

* Denotes child warning label

** Cover Included *** Offset Printed

OPENHEAD PAIL- UN CERTIFIED _____

Openhead Pail (UN Certified)

Part #	Size	Color	Handle	MIL Thickness	UN Rating
07-1741	20 liter	Natural	Plastic	90	UN1H2/Y1.5/30; UN1H2/Y25/S; UN1H2/Y43/S
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
07-4286	20 liter*	Natural	Metal	90	UN1H2/Y1.5/30; UN1H2/Y25/S; UN1H2/Y43/S
07-1365	3.5 gallon	White	Metal	90	UN1H2/Y1.5/30; UN1H2/Y25/S; UN1H2/Y43/S
07-1602	5 gallon*	Natural	Metal	90	UN1H2/Y1.5/30; UN1H2/Y25/S; UN1H2/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
07-1666	5 gallon*	Red	Metal	90	UN1H2/Y1.5/30; UN1H2/Y25/S; UN1H2/Y43/S
07-1796	5 gallon*	Red	Metal	90	UN1H2/Y1.5/30; UN1H2/Y25/S; UN1H2/Y43/S
07-4252	5 gallon*	Blue	Metal	90	UN1H2/Y1.5/30; UN1H2/Y25/S; UN1H2/Y43/S

All plastic pails are made with HDPE material.

* Denotes child warning label

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 Custom Colors Available
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 63.

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
07-1099	1 gallon	White	Tear Tab	Plain
07-1101	1 gallon	Black	Tear Tab	Flexspout Installed
07-1519	1 gallon	Natural	Tear Tab	Plain
07-1150	2 gallon	White	Standard	Plain
07-1152	2 gallon	White	Tear Tab	Plain
07-1150	2 gallon	White	Standard	Plain
07-1251	2 gallon	Black	Tear Tab	Plain
07-1902	3.5-5-6GL - 20L	Blue	Tear Tab	Flexspout Installed/All Plastic Spout
07-1907	3.5-5-6GL - 20L	Black	Tear Tab	Flexspout Installed/All Plastic Spout
07-1909	3.5-5-6GL - 20L	Blue	Tear Tab	Flexspout Installed/All Plastic Spout
07-1917	3.5-5-6GL - 20L	White	Tear Tab	Flexspout Installed/All Plastic Spout
07-1932	3.5-5-6GL - 20L	Red	Standard	Flexspout Installed/All Plastic Spout
07-1933	3.5-5-6GL - 20L	Green	Standard	Flexspout Installed
07-1937	3.5-5-6GL - 20L	Red	Tear Tab	Flexspout Installed/All Plastic Spout
07-1938	3.5-5-6GL - 20L	Red	Tear Tab	Plain
07-1941	3.5-5-6GL - 20L	Red	Tear Tab	70mm Screw cap Installed
07-1942	3.5-5-6GL - 20L	Yellow	Standard	Flexspout Installed
07-2079	3.5-5-6GL – 20L	Red	Standard	Flexspout Installed
07-2109	3.5-5-6GL – 20L	Red	Tear Tab	Flexspout Installed
07-2120	3.5-5-6GL - 20L	Blue	Tear Tab	Plain
07-2180	3.5-5-6GL - 20L	White	Tear Tab	Plain
07-2182	3.5-5-6GL - 20L	Blue	Tear Tab	Flexspout Installed
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
07-2188	3.5-5-6GL – 20L	Red	Tear Tab	Flexspout Installed/Anti Glug/Tamper Evident
07-2226	3.5-5-6GL – 20L	Blue	Tear Tab	Flexspout Installed/UV Inhibitor
07-2227	3.5-5-6GL – 20L	Blue	Tear Tab	Plain
07-2247	3.5-5-6GL – 20L	Red	Tear Tab	Flexspout Installed
07-5041	3.5-5-6GL – 20L	Turquoise	Tear Tab	Plain
07-5057	3.5-5-6GL – 20L	White	Tear Tab	Flexspout Installed/Anti Glug
07-5058	3.5-5-6GL – 20L	Natural	Tear Tab	Flexspout Installed

OPENHEAD PAIL COVER CONTINUED

Openhead Pail Cover				
Part #	Size	Color	Cover Style	Fitting
07-5061	3.5-5-6GL – 20L	Red	Tear Tab	Flexspout Installed
07-5063	3.5-5-6GL - 20L	Blue	Tear Tab	Flexspout Installed
07-5064	3.5-5-6GL – 20L	Orange	Tear Tab	Flexspout Installed
07-5074	3.5-5-6GL – 20L	Blue	Tear Tab	Flexspout Installed
07-5087	3.5-5-6GL – 20L	Blue	Tear Tab	Plain
07-6065	3.5-5-6GL – 20L	Yellow	Tear Tab	Flexspout Installed/ Micro Porous Vent
07-6066	3.5-5-6GL – 20L	Green	Tear Tab	Flexspout Installed/Micro Porous Vent
07-2252	5.5 gallon	White	Tear Strip	Plain/Black Gasket
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
07-1908	3.5GL-20L	White	Standard	Flexspout Installed	UN Liquid
07-1940	3.5-5-6GL-20L	Red	Standard	Plain	UN Liquid or Solid
07-1929	3.5-5-6GL-20L	Red	Standard	Flexspout Installed/All Plastic Spout	UN Liquid or Solid
07-1950	3.5-5-6GL-20L	Green	Standard	Flexspout Installed/All Plastic Spout, Micropourous	UN Liquid
07-1959	3.5-5-6GL-20L	Red	Standard	Flexspout Installed/All Plastic Spout, Micropourous	UN Liquid
07-2207	3.5-5-6GL-20L	White	Tear tab	Plain	UN Solid
07-2256	3.5-5-6GL-20L	Blue	Standard	Flexspout Installed/Vented, Tamper Evident	UN Liquid or Solid
07-6067	3.5-5-6GL-20L	Green	Standard	Flexspout Installed/Special Vent, Micropourous	UN Liquid or Solid
07-1936	3.5-6GL-20L	Natural	Standard	70mm Screw Cap Installed W/FS-80 Cap	UN Liquid or Solid
07-2067	3.5-6GL-20L	White	Standard	Rieke Prep	UN Liquid or Solid
07-4250	3.5-6GL-20L	White	Standard	70mm Screw Cap	UN Liquid or Solid
07-2196	20L	White	Standard	Plain	UN Liquid
07-4248	20L	White	Standard	Rieke Prep	UN Liquid
07-5021	20L	White	Standard	Rieke Prep	UN Liquid
07-5025	20L	Orange	Standard	Rieke Prep	UN Liquid
07-5038	20L	Red	Standard	Rieke Prep	UN Liquid
07-5557	20L	Blue	Standard	Rieke Prep/Must be Inverted	UN Liquid
07-6068	20L	White	Standard	Rieke Prep, Vent Installed	UN Liquid
07-1912	5GL-20L	Blue	Standard	Flexspout Installed	UN Liquid
07-1916	5GL-20L	Natural	Standard	Flexspout Installed	UN Liquid
07-1928	5GL-20L	Natural	Standard	Flexspout Installed	UN Liquid or Solid
07-4251	5GL-20L	White	Standard	Plain	UN Liquid or Solid
07-4269	5GL-20L	White	Standard	Rieke Prep, Vented, Tamper Evident	UN Liquid
07-5015	5GL-20L	White	Standard	70mm Screw Cap Opening	UN Liquid or Solid
07-5016	5GL-20L	Red	Standard	70mm Screw Cap Opening	UN Liquid or Solid
07-5017	5GL-20L	Orange	Standard	70mm Screw Cap Opening	UN Liquid or Solid
07-5018	5GL-20L	Green	Standard	70mm Screw Cap	UN Liquid or Solid
07-5019	5GL-20L	Blue	Standard	70mm Screw Cap	UN Liquid or Solid
07-5021	5GL-20L	White	Standard	Flexspout Installed	UN Liquid or Solid
07-5023	5GL-20L	Blue	Standard	Flexspout Installed	UN Liquid or Solid
07-5024	5GL-20L	Green	Standard	Flexspout Installed	UN Liquid or Solid
07-5038	5GL-20L	Red	Standard	Flexspout Installed	UN Liquid or Solid
07-5100	5GL-20L	Blue	Standard	70mm Screw Cap Attached	UN Liquid
07-5105	5GL-20L	Green	Standard	Rieke Prep, Microvent Spout	UN Liquid
07-5106	5GL-20L	Red	Standard	70mm Screw Cap Attached, Vented	UN Liquid
07-6071	5GL-20L	Yellow	Standard	70mm Screw Cap Opening	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 & COVER

Plastic Screw Top Pail & 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
06-2373	5 gallon	Natural				
06-2356	20 liter	Natural	Attached	LLDPE Insert In White UN Box	Cubetainer®	4G/Y16/S

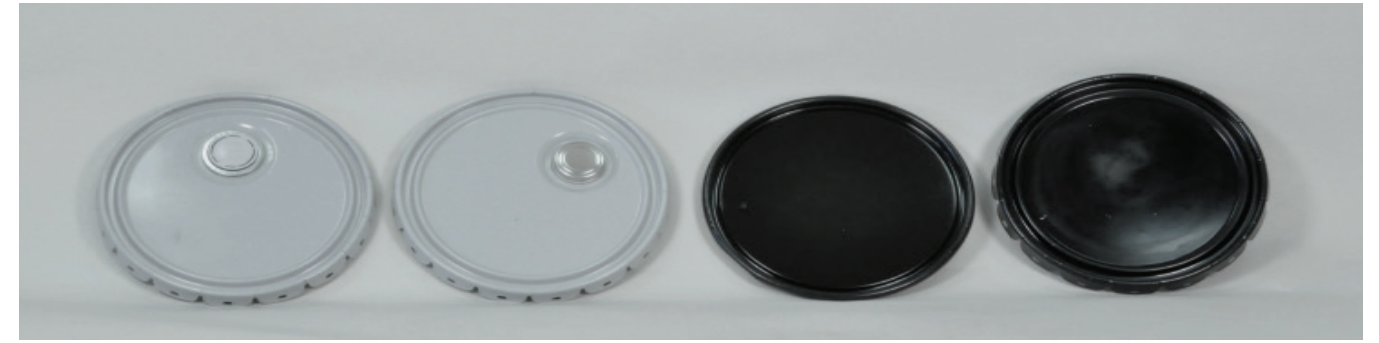Bladder and Box may be sold separately.

STEEL PAIL - OPENHEAD

Steel Pail – Openhead

Part #	Size	Color	Style	Lining	UN Rating	CWL
08-3012	3 gallon	Black	Nested	Unlined	UN1A2/Y2.1/100*	No
08-3015	3.5 gallon	Grey	Nested	Lined	Non-Regulated	No
08-1194	5 gallon	Blue	Nested	Lined	UN1A2/Y1.9/100*	Yes
08-1196	5 gallon	White	Nested	Lined	UN1A2/Y1.9/100*	Yes
08-1244	5 gallon	Grey	Nested	Lined	UN1A2/Y1.9/100*	No
08-1702	5 gallon	Black	Straight Sided	Unlined	UN1A2/Y1.5/100*	No
08-1725	5 gallon	Black	Nested	Rust Inhibitor	UN1A2/Y1.9/100*	No
08-1735	5 gallon	Grey	Nested	Rust Inhibitor	UN1A2/Y1.9/100*	No
08-1742	5 gallon	White	Nested	Rust Inhibitor	UN1A2/Y1.9/100*	No
08-1745	5 gallon	Grey	Nested	Rust Inhibitor	UN1A2/Y1.5/90*	No
08-1748	5 gallon	White	Nested	Unlined	UN1A2/Y1.9/100	Yes
08-1750	5 gallon	Grey	Nested	Rust Inhibitor	Non-Regulated	No
08-1760	5 gallon	Black	Nested	Rust Inhibitor	UN1A2/Y1.5/90*	No
08-1762	5 gallon	Grey	Nested	Rust Inhibitor	UN1A2/Y1.2/81*	No
08-1767	5 gallon	Grey	Nested	Lined	Non-Regulated	No
08-1770	5 gallon	Grey	Nested	Lined	UN1A2/Y1.5/90*	No
08-1775	5 gallon	Grey	Nested	Lined	UN1A2/Y1.5/90*	No
08-1800	5 gallon	Black	Nested	Unlined	Non-Regulated	No
08-1900	5 gallon	Black	Nested	Rust Inhibitor	Non-Regulated	No
08-2177	5 gallon	Grey	Nested	Rust Inhibitor	UN1A2/Y1.9/100*	Yes
08-2200	5 gallon	Grey	Straight Sided	Rust Inhibitor	UN1A2/Y1.2/80**	No
08-2210	5 gallon	Grey	Nested***	Unlined	UN1A2/Y2.0/100**	Yes
08-3906	5 gallon	White	Straight Sided	Unlined	UN1A2/Y2.0/100*	No
08-3911	5 gallon	Black	Double Bead	Lined	UN1A2/Y1.8/100*	Yes

* Regulated pails require use of 24 ga, UN rated cover not included.
** Includes plain cover
***No packed as nested, cover is attached.

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.

OPENHEAD PAIL COVER - UN CERTIFIED

Steel Pails – Cover

Part #	Style	Color	Lining	UN Rating	Fittings
08-2751	Dish	Grey	Lined	Non-Regulated	No Fitting
08-2004	Lug	White	Unlined	Non-Regulated	Flexspout Installed
08-2350	Lug	Black	Unlined	Non-Regulated	No Fitting
08-2450	Lug	Black	Unlined	Non-Regulated	Flexspout Installed
08-1026	Lug	Grey	Lined	UN Liquid	Flexspout Installed
08-1204	Lug	White	Lined	UN Liquid	Flexspout Installed
08-1205	Lug	Blue	Lined	UN Liquid	Flexspout Installed
08-1207	Lug	Black	Lined	UN Liquid	Flexspout Installed
08-1248	Lug	Grey	Lined	UN Liquid	Screw Cap And Seal
08-1254	Lug	Orange	Unlined	UN Liquid	Flexspout Installed
08-1506	Lug	Black	Unlined	UN Liquid	No Fitting
08-1507	Lug	Grey	Lined	UN Liquid	No Fitting
08-1508	Lug	Gray	Unlined	UN Liquid	Flexspout Installed
08-1509	Lug	Grey	Unlined	UN Liquid	No Fitting
08-1511	Lug	Black	Unlined	UN Liquid	Flexspout Installed
08-1512	Lug	White	Unlined	UN Liquid	Rieke Spout
08-1514	Lug	Grey	Unlined	UN Liquid	Screw Cap
08-1517	Lug	Black	Lined	UN Liquid	No Fitting
08-1520	Lug	Red	Unlined	UN Liquid	Flexspout Installed
08-1529	Lug	Grey	Lined	UN Liquid	No Fitting
08-3773	Dish	White	Unlined	UN Liquid	No Fitting

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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	UN1A1/X1.5/250
08-3023	1 gallon	Black	2" Rieke Bung	Lined	UN1A1/X1.5/250
08-3024	1 gallon	Red	3/4" Rieke Bung	Lined	UN1A1/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 & Spout	Unlined	UN1A1/Y1.6/150
08-3100	5 gallon	Grey	Flexspout Opening No Spout	Lined	UN1A1/Y2.1/300
08-3208	5 gallon	Grey	Flexspout Opening No Spout	Unlined	UN1A1/Y2.1/300
08-3255	5 gallon	Grey	Flexspout Opening No Spout	Rust Inhibitor	UN1A1/Y2.1/300
08-3259	5 gallon	Black	Rieke Prep Fitting	Unlined	UN1A1/Y2.1/300
08-3300	5 gallon	Grey	2" Rieke Bung	Lined	UN1A1/Y2.1/300
08-3501	5 gallon	Grey	Flexspout Opening No Spout	Rust Inhibitor	UN1A1/Y1.8/200
08-3550	5 gallon	Black	Rieke Prep Fitting	Unlined	UN1A1/Y1.8/200
08-3600	5 gallon	Grey	Screw Cap & Spout	Rust Inhibitor	UN1A1/Y1.8/200
08-3650	5 gallon	Grey	Rieke Prep Fitting	Phenolic Lined	UN1A1/Y2.1/300
08-3691	5 gallon	Black	2" & 3/4" Rieke Bung	Unlined	UN1A1/Y2.1/300
08-3915	5 gallon	White	Flexspout Opening No Spout	Rust Inhibitor	UN1A1/Y1.2/200
08-2102	7 gallon	Grey	Rieke Opening Dust Cover	Lined	UN1A1/Y2.1/300

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.

PAIL ACCESSORY

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
08-0750	Innerseal 2-1/8" International for Closedhead Pails
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

CONE TOP / POUR TOP

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

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)

> Ask about minimums for custom printed cans.

OBLONG & F-STYLE

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
12-4113	Half gallon	Plain	32mm	Rel	Bulk Box
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 Pallettized
12-3960	1 gallon	Plain	32mm	Rel	Bulk Pallettized
12-4301	1 gallon	Plain	57mm	Din	Bulk Pallettized
12-3912	1 gallon	plain	32mm	Rel	Bulk Box

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)

ROUND PAINT

Round Paint					
Part #	Size	Lining	Ears & Bails	Pack	Diameter X Height
12-2850	Quarter Pint	Unlined	No	Bulk Box	208 X 204
12-2900	Quarter Pint	Unlined	Plug For Above	Bulk Box	208
12-1853	Half pint	Lined	No	Arco	214 X 214
12-1801	Half pint	Unlined	No	Arco	214 X 300
12-1806	Half Pint	Lined	No*	Arco	214 X 300
12-1702	1 pint	Unlined	No	Arco	307 X 315
12-1752	1 pint	Lined	No	Arco	307 X315
12-1753	1 pint	Lined	No	Arco	307 X 315
12-1653	1 quart	Lined	No	Arco	404 X 414
12-1601	1 quart	Unlined	No	Arco	404 X 414
12-1652	1 quart	Lined	Yes	Bulk Box	404 X 415
12-2451	1 quart	Unlined	No	Bulk Box	404 X 415
12-2503	1 quart	Unlined	Plug for Above	Bulk Box	404
12-2463	1 liter	Lined	No*	Bulk Box	404 X502.5
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"
12-2352	Half gallon	Lined	No	Bulk Bag	610 X 404
12-2400	Half gallon	Unlined	Plug For Above	Bulk Box	610
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
12-2163	1 gallon	Lined	No	Bulk Box	610 X 710.5
12-2207	1 gallon	Lined	Plug For Above	Bulk Box	610
12-2175	1 gallon	Lined	Yes	Bulk Box	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)

Round Paint - Plastic						
Part #	Size	Material	Lined	Ears & Bails	Pack	Diameter X
07-0957	1 quart	Polypropylene	No	No	Bulk Box	404 X 414
12-2211	1 quart	Polypropylene	No	Plug for Above	Bulk Box	404
07-0953	1 gallon	Polypropylene	Yes	Yes	Bulk Box	610 X 712
12-2209	1 gallon	Polypropylene	Yes	Plug for Above	Bulk Box	610

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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

ACCESSORY, INNER SEAL, CAP & CLOSING/TIGHTENING TOOLS

Secure Shipping Accessory		
Part #	Size	Type
12-3852	Half Pint	Can Clip
12-3850	Quart/Pint	Can Clip
12-3800	Gallon	Can Clip
12-3857	Half Pint	Armlock
12-3855	Pint	Armlock
12-3860	Quart/Pint	Armlock
12-3865	Quart	Armlock
12-3959	Gallon	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

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

BOSTON ROUND

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

Also Available	
Size	1 oz - 1 gallon
Neck Finish	20mm - 38mm
Color	Amber, Flint (Clear) Custom Colors Available

ECONOMY JAR

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
10-2301	12 ounce	70-G-450	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

Also Available	
Size	60cc - 128cc
Neck Finish	33mm - 89mm, CT and Lug
Color	Amber, Flint (Clear) Custom Colors Available

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
10-1525	2 ounce	38-400	Flint	Bulk Box
10-1615	4 ounce	48-400	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

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

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

LIQUOR

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

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

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	Removable Poly Grating 1.75" With Opening
98-1066	Two Drum Modular Spill Platform	Yellow	30 Gallon Spill Capacity	Removable Poly Grating
98-1067	Four Drum Modular Spill Platform	Yellow	30 Gallon Spill Capacity/Side, 10,000 lb Load Capacity	Removable Poly Grating
98-1069	Four Drum Low Profile Modular Spill Platform	Yellow	66 Gallon Spill Capacity	Removable 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

SPILL KIT

Spill Kit			
Part #	Size	Description	Components
98-1091 Build a Kit Combination Available in Universal, Haz Mat only, or Oil Only	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.	• 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 55Gl Headliner 15Ml Natural Pleats
06-1656	Drum Insert 30Gl 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**

ACCESSORY

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 Cover18 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:
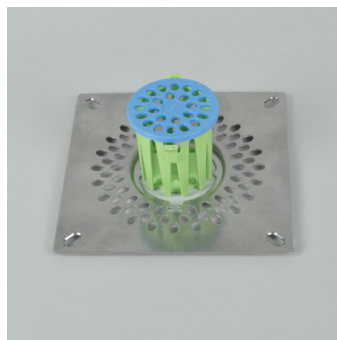
Economical	Improved Customer/ User Experience	Product Protection & Preservation	Stainability	Shelf Appeal

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 lead times.

HARD TO HOLD

BARRIER ENHANCEMENTS FOR HARD TO HOLD PRODUCTS

We have bottles 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 f or containers and kept in stock at our Distribution centers. Larger pails and drums, as well as sprayers or closures can also be treated.
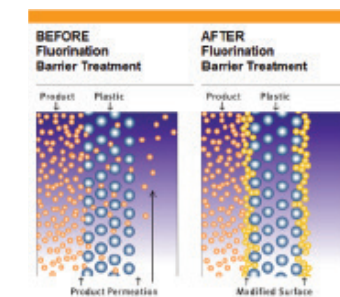
About Fluorination
Fluorination of plastic containers increases barrier properties. When exposed, the fluorine gas creates carbon fluorine bonding on the inside and outside surface area, in essence blocking the porous wall of plastic, helping to eliminate or reduce migration of aggressive chemicals.

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."

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
- Cyclohexane
- 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

PLASTIC RESIN GUIDE

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 silk-screen 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 & CHEMICAL RESISTANCE

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
Fluoroploymer	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.
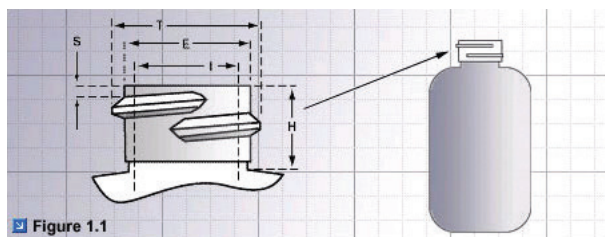
Figure 1.1

"I" DIMENSION

The inner diameter of the bottle neck. Specifications require a minimum "I" to allow sufficient clearance for filling tubes. Liner-less 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: Noncontinuous threads
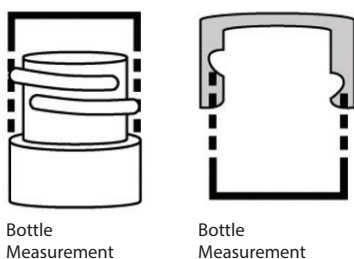
How To Measure a Neck Finish

Bottle Measurement

Bottle Measurement

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)

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, are supplied on a roll, 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 produced in both types of sleeves are far superior to any type of printing directly on the containers. The tamper evidence 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.

Not all decoration and label options apply to all products. Please contact us for assistance.

RIGID PLASTIC PACKAGING CONTAINERS (RPPC)

California's Rigid Plastic Packaging Container Act, passed in 1991, requires 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 it its introduction in 1991, it has been periodically updated. The latest being a major update, effective January 1, 2013. In addition, several other states also adopted similar regulations and even more are 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 incapable 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, containing 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 product 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 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 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:

- Made from at least 25 percent Post Consumer Material (PCM)…..
- 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.
- "Reusable" or "refillable" RPPCs as defined in the regulation.
- "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 destined for shipment outside California and remain with the products upon shipment.
- RPPC containing 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 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 post consumer 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 or HAZPlus offering legal or regulatory advice. Companies must read and understand the RPPC law in full and take appropriate action. C.L. Smith or HAZPlus 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
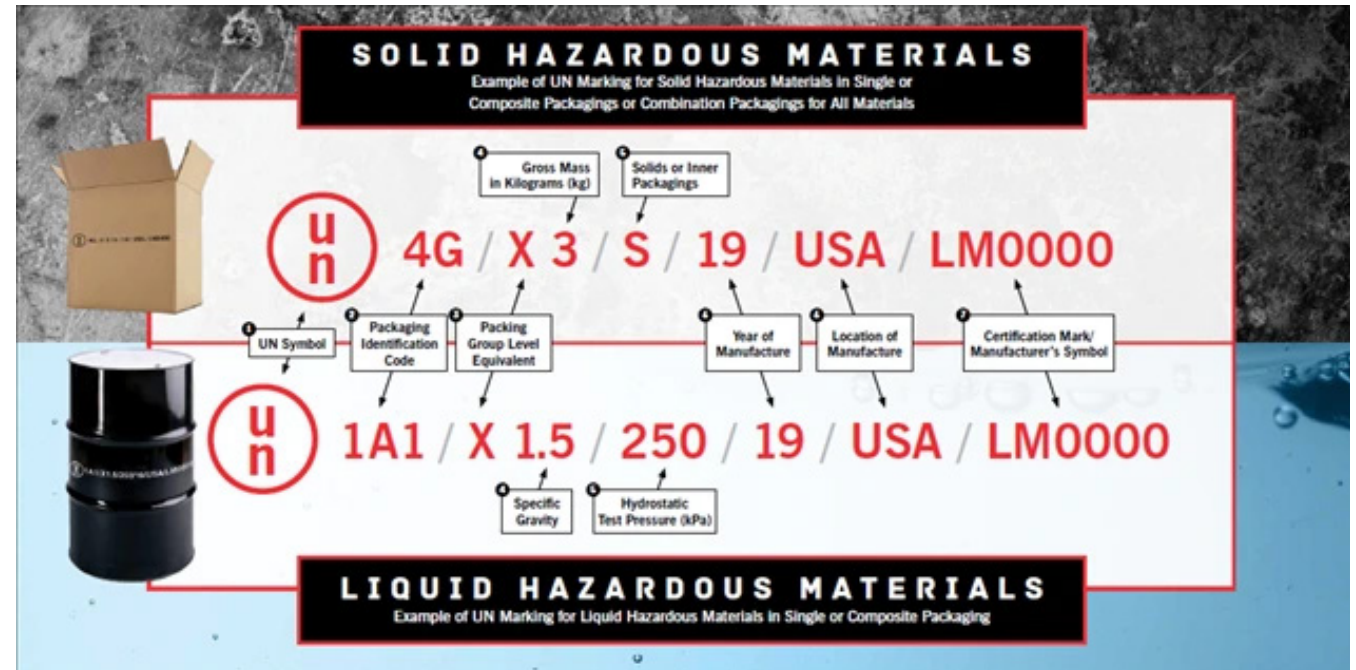
UN	THE UNITED NATIONS SYSTEM
1	**TYPE OF PACKAGE** 1. Drums/Pails 3. Jerricans 5. Bags 2. Barrels 4. Boxes (corrugated) 6. Composite Packagings
H	**MATERIAL OF CONSTRUCTION** A. Steel B. Aluminum C. Wood G. Fiber (corrugated) H. Plastic
1	**CATEGORY WITHIN TYPE** 1. Closedhead 2. Openhead
Y	**PACKAGING 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**
MXXX	**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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