

# Packaging Appendix of Most Common Containers

The following Packaging Appendix contains information about many of Avantor's most common packaging configurations and is organized by product type with specifica-

tions and photos. All Avantor packaging is designed with purity, safety, and convenience in mind. For detailed information on packaging that does not appear in this

catalog, please contact Technical Service at 1-800-669-8230 or use the ASK AVANTOR feature at [avantormaterials.com](http://avantormaterials.com).

Package Type	Septum-Seal Cap	Septum-Seal Cap	Amber Poly Coated
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Description	4 oz amber round glass bottle with septum seal cap	1 L amber round glass bottle with septum seal cap	4 L round amber glass bottle with an outer PVC coating
<b>Material of Construction</b>	<b>Container</b>	Soda lime glass type III	Soda lime glass type III
	<b>Cap</b>	Polypropylene 0.45" hole	Polypropylene 0.45" hole
	<b>Cap Liner</b>	Teflon composite liner	Teflon composite liner
	<b>Gasket</b>		
<b>Height (in)</b>	4.780	8.766	13.406
<b>Width or OD (in)</b>	1.910	3.797	6.219
<b>Package Weight (lb)</b>	0.220	1.076	2.813
<b>Height (cm)</b>	12.141	22.266	34.052
<b>Width or OD (cm)</b>	4.841	9.644	15.796
<b>Package Weight (kg)</b>	0.101	0.489	1.276
<b>Thread (neck finish)</b>	38/439 Finish	38/439 Finish	38/439 Finish
<b>Special Features</b>	Septum cap allows multiple penetrations while still maintaining low water content.	Septum cap allows multiple penetrations while still maintaining low water content.	Poly coated bottle to prevent shattering upon impact.

**Abbreviations:**

- HDPE—High Density Polyethylene
- EPDM—Ethylene Propylene Durometer
- LDPE—Low Density Polyethylene

## Packaging Appendix




Package Type		Amber Glass	Amber Glass	Amber Glass
				
<b>Description</b>		500 mL round amber glass bottle	1 L round amber glass bottle	1 L round amber glass bottle
<b>Material of Construction</b>	<b>Container</b>	Soda lime glass type III	Soda lime glass type III	Soda lime glass type III
	<b>Cap</b>	Polypropylene	Polypropylene, tamper evident	Polypropylene
	<b>Cap Liner</b>	Pulp and tin foil	Teflon	Teflon
	<b>Gasket</b>			
<b>Height (in)</b>		7.734	8.580	8.766
<b>Width or OD (in)</b>		3.000	4.000	3.797
<b>Package Weight (lb)</b>		0.686	1.540	1.076
<b>Height (cm)</b>		19.644	21.793	22.266
<b>Width or OD (cm)</b>		7.620	10.160	9.644
<b>Package Weight (kg)</b>		0.311	0.699	0.489
<b>Thread (neck finish)</b>		38/439 Finish	DIN 45 Finish	38/439 Finish
<b>Special Features</b>			Compatible with Karl Fischer instruments.	

## Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Diurethane

LDPE—Low Density Polyethylene

Package Type	Amber Glass	Amber Glass	Poly
			
<b>Description</b>	2.5 L round amber glass bottle	4 L amber glass bottle	4 L polyethylene bottle
<b>Material of Construction</b>			
<b>Container</b>	Soda lime glass type III	Soda lime glass type III	HDPE
<b>Cap</b>	Polypropylene, tamper evident	Polypropylene	Polypropylene
<b>Cap Liner</b>	Teflon	Teflon	Polypropylene
<b>Gasket</b>			
<b>Height (in)</b>	12	13.406	13.600
<b>Width or OD (in)</b>	6	6.219	6.120
<b>Package Weight (lb)</b>	2.860	2.813	0.419
<b>Height (cm)</b>	30.45	34.052	34.544
<b>Width or OD (cm)</b>	15.23	15.796	15.545
<b>Package Weight (kg)</b>	1.297	1.276	0.190
<b>Thread (neck finish)</b>	DIN 45 Finish	38/439 Finish	38/439 Finish
<b>Special Features</b>	Compatible with Karl Fischer instruments.		

**Abbreviations:**

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

## Packaging Appendix

Package Type	Poly PB	Poly Pail	NOWPak Package
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<b>Description</b>		4 L pressure bottom polyethylene bottle	5 gal molded polyethylene pail	20 L non-pressurized HDPE drum with collapsible inner liner
<b>Material of Construction</b>	<b>Container</b>	HDPE with molded handle	High Molecular Weight HDPE	High Molecular Weight HDPE resin/ polytetrafluoroethylene liner
	<b>Cap</b>	Polypropylene	2" buttress white HDPE	HDPE
	<b>Cap Liner</b>	Polypropylene		Teflon
	<b>Gasket</b>		EPDM & POE (Polyolefin)	
<b>Height (in)</b>		13.730	13.625	16.300
<b>Width or OD (in)</b>		6.031	9.375	12.000
<b>Package Weight (lb)</b>		0.467	2.900	4.800
<b>Height (cm)</b>		34.874	34.6	41.402
<b>Width or OD (cm)</b>		15.319	23.8	30.480
<b>Package Weight (kg)</b>		0.212	1.315	2.180
<b>Thread (neck finish)</b>		38/439 finish	2" female buttress	
<b>Special Features</b>				For more details see page 104.

**Abbreviations:**

- HDPE—High Density Polyethylene
- EPDM—Ethylene Propylene Durometer
- LDPE—Low Density Polyethylene

Package Type	AI SAFETAINER	CYCLE-TAINER System	CYCLE-TAINER System
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<b>Description</b>		4 L seamless aluminum can	4 L stainless steel returnable positive-pressure solvent delivery system	18 L stainless steel returnable positive-pressure solvent delivery system
<b>Material of Construction</b>	<b>Container</b>	Aluminum with polypropylene threads	304 stainless steel with internal passivation of electropolish	304 stainless steel with internal passivation of electropolish
	<b>Cap</b>	Polypropylene	Swagelok Quick-Connect fitting color-coded for a specific chemical	Swagelok Quick-Connect fitting color-coded for a specific chemical
	<b>Cap Liner</b>		Teflon	Teflon
	<b>Gasket</b>			
<b>Height (in)</b>		9.173	11.750	22.440
<b>Width or OD (in)</b>		6.890	9.200	11.100
<b>Package Weight (lb)</b>		0.651	13.000	24.000
<b>Height (cm)</b>		23.300	29.845	56.998
<b>Width or OD (cm)</b>		17.500	23.368	28.194
<b>Package Weight (kg)</b>		0.295	5.897	10.886
<b>Thread (neck finish)</b>		DIN45		
<b>Special Features</b>		Safety package that eliminates breakage and minimizes vapor leaks.	For more details see pages 99–103.	For more details see pages 99–103.




**Abbreviations:**

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer




LDPE—Low Density Polyethylene

## Packaging Appendix

Package Type		CYCLE-TAINER System	CYCLE-TAINER System	CYCLE-TAINER System
				
<b>Description</b>		52 L stainless steel returnable positive-pressure solvent delivery system	215 L stainless steel returnable positive-pressure solvent delivery system	1250 L stainless steel returnable positive-pressure solvent delivery system
<b>Material of Construction</b>	<b>Container</b>	304 stainless steel with internal passivation of electropolish	304 stainless steel with internal passivation of electropolish	304/316 stainless steel with internal passivation of electropolish
	<b>Cap</b>	Swagelok Quick-Connect fitting color-coded for a specific chemical	Swagelok Quick-Connect fitting color-coded for a specific chemical	Swagelok Quick-Connect fitting color-coded for a specific chemical.
	<b>Cap Liner</b>	Teflon	Teflon	Teflon
	<b>Gasket</b>			
<b>Height (in)</b>		28.920	55.125	73.210
<b>Width or OD (in)</b>		15.640	21.770	45.000
<b>Package Weight (lb)</b>		56.000	144.000	496.000
<b>Height (cm)</b>		73.457	140.018	185.953
<b>Width or OD (cm)</b>		39.726	55.296	114.300
<b>Package Weight (kg)</b>		25.402	65.318	224.986
<b>Thread (neck finish)</b>				
<b>Special Features</b>		For more details see pages 99–103.	For more details see pages 99–103.	For more details see pages 99–103.

**Abbreviations:**




HDPE—High Density Polyethylene  
 EPDM—Ethylene Propylene Durometer  
 LDPE—Low Density Polyethylene

Package Type	Steel Pail	Lined Steel Dr	Steel Drum	
				
<b>Description</b>	20 L steel pail with pull out spout	20 L steel drum with phenolic coating pull out spout	55 gal steel drum	
<b>Material of Construction</b>	<b>Container</b>	Cold rolled low carbon steel with Rieke LDPE spout	Steel/phenolic liner with Rieke LDPE spout	Cold rolled low carbon steel
	<b>Cap</b>	LDPE	LDPE	Rieke flanges and zinc plated (electroplated steel) plugs or plastic plugs (2" and 3/4" plug available)
	<b>Cap Liner</b>			Irradiated Polyethylene
	<b>Gasket</b>			
<b>Height (in)</b>	14.313	14.313	34.375	
<b>Width or OD (in)</b>	11.250	11.250	23.594	
<b>Package Weight (lb)</b>	4.550	5.800	37.500	
<b>Height (cm)</b>	36.355	36.355	87.313	
<b>Width or OD (cm)</b>	28.575	28.575	59.929	
<b>Package Weight (kg)</b>	2.064	2.631	17.010	
<b>Thread (neck finish)</b>				
<b>Special Features</b>	Steel drum helps absorb shock, is break resistant, and can be grounded for safety. Tamper evident cap.	Extra phenolic coating to prevent rust forming inside. Tamper evident cap.	Compatible with many pumps for dispensing. Provides grounding option. Tamper evident cap.	

**Abbreviations:**

HDPE—High Density Polyethylene  
 EPDM—Ethylene Propylene Durometer  
 LDPE—Low Density Polyethylene

## Packaging Appendix

Package Type	Amber Glass	Amber Glass	Amber Glass	
				
<b>Description</b>	30 cc wide mouth amber glass bottle	60 cc wide mouth amber glass bottle	150 cc wide mouth amber glass bottle	
<b>Material of Construction</b>	<b>Container</b>	Soda lime glass type III with no internal treatment	Soda lime glass type III with no internal treatment	Soda lime glass type III with no internal treatment
	<b>Cap</b>	Phenolic	Phenolic	Polypropylene; tamper evident
	<b>Cap Liner</b>	Polyethylene	Polyethylene	Teflon/polyethylene
	<b>Gasket</b>			
<b>Height (in)</b>	2.516	3	4.25	
<b>Width or OD (in)</b>	1.5	1.75	2.2	
<b>Package Weight (lb)</b>	0.11	0.15	0.41	
<b>Height (cm)</b>	6.39	7.62	10.80	
<b>Width or OD (cm)</b>	3.81	4.45	5.59	
<b>Package Weight (kg)</b>	0.05	0.07	0.19	
<b>Thread (neck finish)</b>	28/400	33/400	DIN45	
<b>Special Features</b>			Tamper evident break away ring.	

## Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene






<b>Package Type</b>	Amber Glass	Amber Glass	Amber Glass
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<b>Description</b>		300 cc wide mouth amber glass bottle	500 cc wide mouth amber glass bottle	950 cc wide mouth amber glass bottle
<b>Material of Construction</b>	<b>Container</b>	Soda lime glass type III with no internal treatment	Soda lime glass type III with no internal treatment	Soda lime glass type III with no internal treatment
	<b>Cap</b>	Polypropylene; tamper evident	Polypropylene; tamper evident	Polypropylene; tamper evident
	<b>Cap Liner</b>	Teflon/polyethylene	Teflon/polyethylene	Teflon/polyethylene
	<b>Gasket</b>			
<b>Height (in)</b>		5.409	6.183	7.428
<b>Width or OD (in)</b>		2.641	3.25	3.828
<b>Package Weight (lb)</b>		0.62	0.9	0.93
<b>Height (cm)</b>		13.74	15.70	18.87
<b>Width or OD (cm)</b>		6.71	8.26	9.72
<b>Package Weight (kg)</b>		0.28	0.41	0.42
<b>Thread (neck finish)</b>		DIN54	DIN54	DIN54
<b>Special Features</b>		Tamper evident break away ring.	Tamper evident break away ring.	Tamper evident break away ring.

Abbreviations:  
 HDPE—High Density Polyethylene  
 EPDM—Ethylene Propylene Durometer  
 LDPE—Low Density Polyethylene

## Packaging Appendix

Package Type	Amber Glass	Poly	Poly	
				
<b>Description</b>	2500 cc wide mouth amber glass bottle	120 cc wide mouth square poly bottle	300 cc wide mouth square poly bottle	
<b>Material of Construction</b>	<b>Container</b>	Soda lime glass type III with no internal treatment	HDPE	HDPE
	<b>Cap</b>	Polypropylene; tamper evident	Polypropylene; tamper evident	Polypropylene; tamper evident
	<b>Cap Liner</b>	Teflon/polyethylene		
	<b>Gasket</b>			
<b>Height (in)</b>	10.048	4.33	5.11	
<b>Width or OD (in)</b>	5.422	2.36	2.36	
<b>Package Weight (lb)</b>	1.06	0.06	0.073	
<b>Height (cm)</b>	25.52	11.00	12.98	
<b>Width or OD (cm)</b>	13.77	5.99	5.99	
<b>Package Weight (kg)</b>	0.48	0.03	0.03	
<b>Thread (neck finish)</b>	DIN80	DIN45	DIN45	
<b>Special Features</b>	Tamper evident break away ring.	Tamper evident break away ring.	Tamper evident break away ring.	

**Abbreviations:**

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

<b>Package Type</b>	Poly	Poly	Poly
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<b>Description</b>		500 cc wide mouth square poly bottle	1000 cc wide mouth square poly bottle	1500 cc wide mouth square poly bottle
<b>Material of Construction</b>	<b>Container</b>	HDPE	HDPE	HDPE
	<b>Cap</b>	Polypropylene; tamper evident	Polypropylene; tamper evident	Polypropylene; tamper evident
	<b>Cap Liner Gasket</b>			
<b>Height (in)</b>		6.3	7.28	9.5
<b>Width or OD (in)</b>		3	3.74	3.74
<b>Package Weight (lb)</b>		0.1	0.16	0.21
<b>Height (cm)</b>		16.00	18.49	24.13
<b>Width or OD (cm)</b>		7.62	9.50	9.50
<b>Package Weight (kg)</b>		0.05	0.07	0.10
<b>Thread (neck finish)</b>		DIN45	DIN45	DIN45
<b>Special Features</b>		Tamper evident break away ring.	Tamper evident break away ring.	Tamper evident break away ring.

Abbreviations:  
 HDPE—High Density Polyethylene  
 EPDM—Ethylene Propylene Durometer  
 LDPE—Low Density Polyethylene

## Packaging Appendix

Package Type	Poly	Poly	Flowmor System
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Description		2500 cc wide mouth square poly bottle	4000 cc wide mouth poly bottle	3.5 gal open head poly pail
<b>Material of Construction</b>	<b>Container</b>	HDPE	HDPE	HDPE with Tyvek liner
	<b>Cap</b>	Polypropylene; tamper evident	Polypropylene; tamper evident	HDPE
	<b>Cap Liner</b>			
	<b>Gasket</b>			Polyurethane
<b>Height (in)</b>		10.55	10.55	10.65
<b>Width or OD (in)</b>		5	5	14.13
<b>Length (in)</b>		5	8.5	14.13
<b>Package Weight (lb)</b>		0.275	0.4	2.58
<b>Height (cm)</b>		26.80	26.80	27.05
<b>Width or OD (cm)</b>		12.70	12.70	35.89
<b>Length (cm)</b>		12.70	21.59	35.89
<b>Package Weight (kg)</b>		0.12	0.18	1.17
<b>Thread (neck finish)</b>		DIN80	DIN80	
<b>Special Features</b>		Tamper evident break away ring.	Tamper evident break away ring.	Includes desiccant bag between liner and drum. Combination of liner, drum and desiccant keeps material free flowing. Tamper evident cable tie with Avantor logo.

## Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene



<b>Package Type</b>	Poly Pail	Poly Pail	Poly Pail
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<b>Description</b>		2 gal open head poly pail	3.5 gal open head poly pail	5 gal open head poly pail
<b>Material of Construction</b>	<b>Container</b>	HDPE with LDPE liner	HDPE with LDPE liner	HDPE with LDPE liner
	<b>Cap</b>	HDPE	HDPE	HDPE
	<b>Cap Liner</b>			
	<b>Gasket</b>	Polyurethane	Polyurethane	Polyurethane
<b>Height (in)</b>		10.13	10.65	14.51
<b>Width or OD (in)</b>		11.28	14.13	14.13
<b>Package Weight (lb)</b>		1.71	2.58	3.23
<b>Height (cm)</b>		25.73	27.05	36.86
<b>Width or OD (cm)</b>		28.65	35.89	35.89
<b>Package Weight (kg)</b>		0.78	1.17	1.47
<b>Thread (neck finish)</b>				
<b>Special Features</b>		Tamper evident cable tie with Avantor logo.	Tamper evident cable tie with Avantor logo.	Tamper evident cable tie with Avantor logo.

Abbreviations:  
 HDPE—High Density Polyethylene  
 EPDM—Ethylene Propylene Durometer  
 LDPE—Low Density Polyethylene

## Packaging Appendix

Package Type	Poly Drum	Poly Drum
		
<b>Description</b>	14 gal open head poly drum	30 gal open head poly drum
<b>Material of Construction</b>	HDPE with LDPE liner	HDPE with LDPE liner
	<b>Container</b>	
	<b>Cap</b>	
	<b>Cap Liner</b>	
	<b>Gasket</b>	
<b>Height (in)</b>	26	30
<b>Width or OD (in)</b>	14.75	21.5
<b>Package Weight (lb)</b>	8.2	15.9
<b>Height (cm)</b>	66.04	76.20
<b>Width or OD (cm)</b>	37.47	54.61
<b>Package Weight (kg)</b>	3.72	7.21
<b>Thread (neck finish)</b>		
<b>Special Features</b>	Tamper evident galvanized metal ring with wire hasps.	Tamper evident galvanized metal ring with wire hasps.

**Abbreviations:**

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

Package Type	Poly Coated	Glass	Poly Coated
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<b>Description</b>		500 mL narrow mouth clear glass bottle with PVC coating	500 mL narrow mouth clear glass bottle	2.5 L narrow mouth clear glass bottle with PVC coating
<b>Material of Construction</b>	<b>Container</b>	Soda lime glass type III with internal treatment	Soda lime glass type III with internal treatment	Soda lime glass type III with internal treatment
	<b>Cap</b>	Polypropylene	Polypropylene	Polypropylene
	<b>Cap Liner</b>	LDPE	LDPE	LDPE
	<b>Gasket</b>			
<b>Height (in)</b>		7.766	7.766	12.203
<b>Width or OD (in)</b>		3	3	5.39
<b>Package Weight (lb)</b>		0.686	0.686	2.3
<b>Height (cm)</b>		19.73	19.73	31.00
<b>Width or OD (cm)</b>		7.62	7.62	13.69
<b>Package Weight (kg)</b>		0.31	0.31	1.04
<b>Thread (neck finish)</b>		38/439	38/439	38/439
<b>Special Features</b>		Internally treated with difluoroethane to prevent leaching of sodium from glass. PVC prevents bottle from shattering and keeps chemical inside if broken.	Internally treated with difluoroethane to prevent leaching of sodium from glass. Designed with a drip ring to prevent dripping during dispensing.	Internally treated with difluoroethane to prevent leaching of sodium from glass. PVC prevents bottle from shattering and keeps chemical inside if broken.




**Abbreviations:**

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

## Packaging Appendix

Package Type		Glass	Poly PB	Poly PB
				
<b>Description</b>		2.5 L narrow mouth clear glass bottle	500 mL footed bottom round poly bottle	500 mL footed bottom round poly bottle
<b>Material of Construction</b>	<b>Container</b>	Soda lime glass type II with internal treatment	HDPE	HDPE
	<b>Cap</b>	Polypropylene	Polypropylene	Polypropylene, vented
	<b>Cap Liner</b>	LDPE	LDPE	Teflon
	<b>Gasket</b>			
<b>Height (in)</b>		12.203	7.621	7.621
<b>Width or OD (in)</b>		5.391	2.937	2.937
<b>Package Weight (lb)</b>		2.3	0.1	0.1
<b>Height (cm)</b>		31.00	19.36	19.36
<b>Width or OD (cm)</b>		13.69	7.46	7.46
<b>Package Weight (kg)</b>		1.04	0.05	0.05
<b>Thread (neck finish)</b>		38/439	38/439	38/439
<b>Special Features</b>		Internally treated with difluoroethane to prevent leaching of sodium from glass. Designed with a drip ring to prevent dripping during dispensing.	Designed for chemicals that develop high pressure during transit or storage.	Designed for chemicals that develop high pressure during, transit or storage, specifically for H <sub>2</sub> O <sub>2</sub> .

**Abbreviations:**

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene






<b>Package Type</b>	Poly	Poly PB	Poly
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<b>Description</b>		500 mL boston round poly bottle	4 L high pressure bottom poly bottle	4 L round poly bottle
<b>Material of Construction</b>	<b>Container</b>	HDPE	HDPE	HDPE
	<b>Cap</b>	Polypropylene	Polypropylene	Polypropylene
	<b>Cap Liner</b>		LDPE	LDPE
	<b>Gasket</b>			
<b>Height (in)</b>		6.34	13.73	13.6
<b>Width or OD (in)</b>		3.062	6.031	6.12
<b>Package Weight (lb)</b>		0.07	0.466	0.42
<b>Height (cm)</b>		16.10	34.87	34.54
<b>Width or OD (cm)</b>		7.78	15.32	15.54
<b>Package Weight (kg)</b>		0.03	0.21	0.19
<b>Thread (neck finish)</b>			38/439	38/439
<b>Special Features</b>		Designed with a spout for easy dispensing.	Designed for chemicals that develop high pressure during transit or storage.	

Abbreviations:  
 HDPE—High Density Polyethylene  
 EPDM—Ethylene Propylene Durometer  
 LDPE—Low Density Polyethylene

## Packaging Appendix

Package Type		Poly	Teflon	Teflon
				
<b>Description</b>		32 oz round poly bottle	500 mL round Teflon bottle	2 L round Teflon bottle
<b>Material of Construction</b>	<b>Container</b>	HDPE	Teflon	Teflon
	<b>Cap</b>		Teflon	Teflon
	<b>Cap Liner</b>	LDPE		
	<b>Gasket</b>			
<b>Height (in)</b>		8.3	7	9.25
<b>Width or OD (in)</b>		3.6	2.75	4.5
<b>Length (in)</b>				
<b>Package Weight (lb)</b>		0.15	0.25	0.8
<b>Height (cm)</b>		21.08	17.78	23.50
<b>Width or OD (cm)</b>		9.14	6.99	11.43
<b>Length (cm)</b>				
<b>Package Weight (kg)</b>		0.07	0.11	0.36
<b>Thread (neck finish)</b>				
<b>Special Features</b>			Teflon bottle dispenser system available (See page 64 for additional details).	Teflon bottle dispenser system available (See page 64 for additional details).

**Abbreviations:**

- HDPE—High Density Polyethylene
- EPDM—Ethylene Propylene Durometer
- LDPE—Low Density Polyethylene

Package Type	Ampoule	Poly Pail	Hedpak
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Description	poly ampoule		19 L poly pail with one opening	5 gal bottle inside a corrugated box (not shown)
<b>Material of Construction</b>	<b>Container</b>	LDPE	HDPE	Polyethylene
	<b>Cap</b>		2" buttress HDPE	70 mm HDPE and 38 mm Polypropylene
	<b>Cap Liner</b>			Polyethylene
	<b>Gasket</b>		EPDM	Ethylene Propylene Terpolymer
<b>Height (in)</b>			13.625	12.25
<b>Width or OD (in)</b>	1.38		13.063	12.25
<b>Length (in)</b>	7.13		9.375	12.25
<b>Package Weight (lb)</b>	0.08		2.5	3.9
<b>Height (cm)</b>			34.61	31.12
<b>Width or OD (cm)</b>	3.51		33.18	31.12
<b>Length (cm)</b>	18.11		23.81	31.12
<b>Package Weight (kg)</b>	0.04		1.13	1.77
<b>Thread (neck finish)</b>			2" female buttress HDPE	
<b>Special Features</b>	Designed for 1 time use		Designed to be light enough for one operator to carry. Available in black or natural.	Designed with a spigot for easy dispensing. Used with high density chemicals.

Abbreviations:  
 HDPE—High Density Polyethylene  
 EPDM—Ethylene Propylene Durometer  
 LDPE—Low Density Polyethylene

## Packaging Appendix

Package Type	Returnable Poly Composite Drum	Returnable Poly Drum	Returnable Poly Drum
			

<b>Description</b>		46 gal polyethylene bladder inside a polyethylene shell	55 gal trilayer drum	55 gal Teflon bladder inside a polyethylene shell
<b>Material of Construction</b>	<b>Container</b>	Polyethylene, 300 kPa rating	HDPE	Polyethylene shell, Teflon liner
	<b>Cap</b>	2" Buttress HDPE	2" Buttress HDPE	2" Buttress Teflon
	<b>Cap Liner</b>	Polyethylene	HDPE	Teflon
	<b>Gasket</b>	EPDM or Viton	EPDM, Viton, POE, or Teflon encapsulated silicone	EPDM, Viton, POE, or Teflon encapsulated silicone
<b>Height (in)</b>		35.9	37.25	34.75
<b>Width or OD (in)</b>		21.88	23.5	23.25
<b>Package Weight (lb)</b>		46.2	29.5	56
<b>Height (cm)</b>		91.19	94.62	88.27
<b>Width or OD (cm)</b>		55.58	59.69	59.06
<b>Package Weight (kg)</b>		20.96	13.38	25.40
<b>Thread (neck finish)</b>				
<b>Special Features</b>		Entegris drum with keyed dip tube, customer dedicated. Designed for chemicals that develop high pressure during transit or storage.	Entegris drum, keyed dip tube, customer dedicated.	Entegris drum, keyed dip tube, customer dedicated.

**Abbreviations:**

- HDPE—High Density Polyethylene
- EPDM—Ethylene Propylene Durometer
- LDPE—Low Density Polyethylene
- POE—Polyolefin Elastomer

Package Type

Returnable IBC

Returnable IBC






<b>Description</b>		220 gal intermediate bulk container (IBC)	330 gal intermediate bulk container (IBC)
<b>Material of Construction</b>	<b>Container</b>	HDPE	HDPE
	<b>Cap</b>	2" Buttress HDPE	2" Buttress HDPE
	<b>Cap Liner</b>		
	<b>Gasket</b>	Viton	Teflon encapsulated
<b>Height (in)</b>		53.75	70
<b>Width or OD (in)</b>		46	46
<b>Length (in)</b>		46	46
<b>Package Weight (lb)</b>		268	309
<b>Height (cm)</b>		136.53	177.80
<b>Width or OD (cm)</b>		116.84	116.84
<b>Length (cm)</b>		116.84	116.84
<b>Package Weight (kg)</b>		121.56	140.16
<b>Thread (neck finish)</b>			
<b>Special Features</b>		Snyder tote, keyed dip tube, customer dedicated.	Snyder tote, keyed dip tube, customer dedicated.

Abbreviations:

- HDPE—High Density Polyethylene
- EPDM—Ethylene Propylene Durometer
- LDPE—Low Density Polyethylene

## Packaging Appendix

Package Type		Amber Glass	Amber Glass	Amber Glass
				
<b>Description</b>		500 mL narrow mouth amber glass bottle	1 L narrow mouth amber glass bottle	4 L narrow mouth amber glass bottle
<b>Material of Construction</b>	<b>Container</b>	Soda lime glass type II with internal treatment	Soda lime glass type III without internal treatment	Soda lime glass type III without internal treatment
	<b>Cap</b>	Polypropylene	Phenolic	Phenolic
	<b>Cap Liner</b>	Teflon	Teflon	Pulp & tin foil
	<b>Gasket</b>			
<b>Height (in)</b>		7.7	8.75	13.39
<b>Width or OD (in)</b>		3	3.78	6.22
<b>Package Weight (lb)</b>		0.6864	1.076	2.8
<b>Height (cm)</b>		19.56	22.23	34.01
<b>Width or OD (cm)</b>		7.62	9.60	15.80
<b>Package Weight (kg)</b>		0.31	0.49	1.27
<b>Thread (neck finish)</b>		38/439	38/439	38/439
<b>Special Features</b>		Internally treated with difluoroethane to prevent leaching of sodium from glass.		

**Abbreviations:**

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

Package Type

Poly PB

Poly

Poly PB



Description		500 mL footed bottom round poly bottle	500 mL Boston round poly bottle	4 L high pressure bottom poly bottle
Material of Construction	Container	HDPE	HDPE	HDPE
	Cap	Polypropylene	Polypropylene	Polypropylene
	Cap Liner	LDPE		LDPE
	Gasket			
Height (in)		7.621	6.34	13.73
Width or OD (in)		2.937	3.062	6.031
Package Weight (lb)		0.1	0.07	0.466
Height (cm)		19.36	16.10	34.87
Width or OD (cm)		7.46	7.78	15.32
Package Weight (kg)		0.05	0.03	0.21
Thread (neck finish)		38/439		38/439
Special Features		Designed for chemicals that develop high pressure during transit or storage.	Designed with a spout for easy dispensing.	Designed for chemicals that develop high pressure during transit or storage.

Abbreviations:

- HDPE—High Density Polyethylene
- EPDM—Ethylene Propylene Durometer
- LDPE—Low Density Polyethylene

## Packaging Appendix

Package Type	Poly	Poly Pail	Ampoule
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Description		4 L round poly bottle	19 L poly pail with one opening	poly ampoule
<b>Material of Construction</b>	<b>Container</b>	HDPE	HDPE	LDPE
	<b>Cap</b>	Polypropylene	2" Buttress HDPE	
	<b>Cap Liner</b>	LDPE		
	<b>Gasket</b>		EPDM	
<b>Height (in)</b>		13.6	13.625	1.38
<b>Width or OD (in)</b>		6.12	13.063	1.38
<b>Length (in)</b>			9.375	7.13
<b>Package Weight (lb)</b>		0.42	2.5	0.08
<b>Height (cm)</b>		34.54	34.61	3.51
<b>Width or OD (cm)</b>		15.54	33.18	3.51
<b>Length (cm)</b>			23.81	18.11
<b>Package Weight (kg)</b>		0.19	1.13	0.04
<b>Thread (neck finish)</b>		38/439		

**Special Features**

Designed to be light enough for one operator to carry. Available in black or natural.

Designed for 1 time use.

**Abbreviations:**

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene



Package Type

Cubitainer

Cubitainer

Hedpak



<b>Description</b>		5 L bag inside a corrugated square box	20 L bag inside a corrugated square box	5 gal bottle inside a corrugated box (not shown)
<b>Material of Construction</b>	<b>Container</b>	Polyethylene	Polyethylene	Polyethylene
	<b>Cap</b>	Polypropylene	Polypropylene	70 mm HDPE and 38 mm Polypropylene
	<b>Cap Liner</b>	Polyethylene	Polyethylene	Polyethylene
	<b>Gasket</b>			Ethylene Propylene Terpolymer
<b>Height (in)</b>		8	12.25	12.25
<b>Width or OD (in)</b>		7.5	12.25	12.25
<b>Length (in)</b>		7.5	12.25	12.25
<b>Package Weight (lb)</b>		0.59	3.9	3.9
<b>Height (cm)</b>		20.32	31.12	31.12
<b>Width or OD (cm)</b>		19.05	31.12	31.12
<b>Length (cm)</b>		19.05	31.12	31.12
<b>Package Weight (kg)</b>		0.27	1.77	1.77
<b>Thread (neck finish)</b>				
<b>Special Features</b>		Designed with a spigot for easy dispensing.	Designed with a spigot for easy dispensing.	Designed with a spigot for easy dispensing. Used with high density chemicals.

Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene

## Packaging Appendix

Package Type

IBC

IBC



<b>Description</b>		220 gal intermediate bulk container (IBC)	330 gal intermediate bulk container (IBC)
<b>Material of Construction</b>	<b>Container</b>	HDPE	HDPE
	<b>Cap</b>	2" Buttress HDPE	2" Buttress HDPE
	<b>Cap Liner</b>		
	<b>Gasket</b>	Viton	Teflon encapsulated
<b>Height (in)</b>		53.75	70
<b>Width or OD (in)</b>		46	46
<b>Length (in)</b>		46	46
<b>Package Weight (lb)</b>		268	309
<b>Height (cm)</b>		136.53	177.80
<b>Width or OD (cm)</b>		116.84	116.84
<b>Length (cm)</b>		116.84	116.84
<b>Package Weight (kg)</b>		121.56	140.16
<b>Thread (neck finish)</b>			
<b>Special Features</b>		Snyder tote, keyed dip tube, customer dedicated.	Snyder tote, keyed dip tube, customer dedicated.

## Abbreviations:

HDPE—High Density Polyethylene

EPDM—Ethylene Propylene Durometer

LDPE—Low Density Polyethylene