



**WHEATON**  
Science Products

# Sample Collection & Storage Containers



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## AC Round Bottles, Clear

- Clear Type III soda lime glass
- 30-500mL (1oz-16oz) sizes

**AC Round Bottles** have a taller and narrower profile than Straight Sided Jars. These jars come packaged in convenience packs with caps attached or bulk packs without caps. Caps may also be purchased separately.

Cat. No.	Capacity (oz)	Capacity (mL)*	Dia x Ht (mm)	Screw Cap Size	Qty/Case
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### With White Polypropylene Cap/Polyvinyl Liner

W216995	1	30	34 x 68	33-400	48
W216996	2	60	42 x 83	38-400	48
W216997	4	125	51 x 102	48-400	24
W216998	8	250	62 x 127	58-400	24
W216999	16	500	76 x 145	70-400	24

### With White Polypropylene Cap/PTFE Faced Foamed Polyethylene Liner

W217000	1	30	34 x 68	33-400	48
W217001	2	60	42 x 83	38-400	48
W217002	4	125	51 x 102	48-400	24
W217003	8	250	62 x 127	58-400	24
W217004	16	500	76 x 145	70-400	24

### Bottles Only Bulk

W217005	1	30	34 x 68	33-400	432
W217006	2	60	42 x 83	38-400	288
W217007	4	125	51 x 102	48-400	144
W217008	8	250	62 x 127	58-400	96
W217009	16	500	76 x 145	70-400	48

\*Approximate capacity.

## Replacement Caps for AC Round Bottles

Cat. No.	Cap Size	Qty/Pack	Qty/Case
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### White Polypropylene/PTFE<sup>®</sup> Faced PE Liner

239236	33-400	72	144
239237	38-400	72	72
239240	48-400	72	72
239242	58-400	72	72
239244	70-400	24	48

### White Polypropylene/Poly-Vinyl Liner

239212	33-400	72	144
239213	38-400	72	72
239216	48-400	72	72
239218	58-400	72	72
239220	70-400	24	48



## Content Identification Label

This easy peel and stick label is provided in each case of Type III glass bottles with the exception of Bulk Packs.



## Boston Round Bottles, Clear

- 30-1000mL (1oz-32oz) sizes
- Polypropylene caps with choice of liners
- Amber glass for light sensitive samples

**Narrow-mouth bottles** are available in both clear and amber Type III soda-lime glass and meet USP Type III standards. These bottles are ideal for solvent, chemical and sample storage and are packaged in convenience packs with caps attached or bulk packs without caps. Caps may also be purchased separately.

Cat. No.	Capacity (oz)	Capacity (mL)*	Dia x Ht (mm)	Screw Cap Size	Qty/Case
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### With White Polypropylene Cap/Polyvinyl Liner

W216800	1	30	31 x 79	20-400	48
W216801	2	60	39 x 94	20-400	24
W216802	4	125	48 x 112	22-400	24
W216803	8	250	60 x 136	24-400	12
W216804	16	500	75 x 168	28-400	12
W216805	32	1000	94 x 206	33-400	12

### With White Polypropylene Cap/PTFE Faced Foamed Polyethylene Liner

W216806	1	30	31 x 79	20-400	48
W216807	2	60	39 x 94	20-400	24
W216808	4	125	48 x 112	22-400	24
W216809	8	250	60 x 136	24-400	12
W216810	16	500	75 x 168	28-400	12
W216811	32	1000	94 x 206	33-400	12

### With Black Phenolic Cap/Poly-Seal<sup>®</sup> Liner

W216812	1	30	31 x 79	20-400	48
W216813	2	60	39 x 94	20-400	24
W216814	4	125	48 x 112	22-400	24
W216815	8	250	60 x 136	24-400	12
W216816	16	500	75 x 168	28-400	12
W216817	32	1000	94 x 206	33-400	12

### With Black Phenolic Cap/Rubber Liner

W216818	1	30	31 x 79	20-400	48
W216819	2	60	39 x 94	20-400	24
W216820	4	125	48 x 112	22-400	24
W216821	8	250	60 x 136	24-400	12
W216822	16	500	75 x 168	28-400	12
W216823	32	1000	94 x 206	33-400	12

### With White Polypropylene Cap/Polyvinyl Liner Bulk

W216824	1	30	31 x 79	20-400	432
W216825	2	60	39 x 94	20-400	288
W216826	4	125	48 x 112	22-400	160
W216827	8	250	60 x 136	24-400	108
W216828	16	500	75 x 168	28-400	60
W216829	32	1000	94 x 206	33-400	12

### Bottles Only Bulk

W216830	1	30	31 x 79	20-400	432
W216831	2	60	39 x 94	20-400	288
W216832	4	125	48 x 112	22-400	160
W216833	8	250	60 x 136	24-400	108
W216834	16	500	75 x 168	28-400	60
W216835	32	1000	94 x 206	33-400	12

\*Approximate capacity

# Glass Bottles



## Boston Round Bottles, Amber

Cat. No.	Capacity (oz)	Capacity (mL)*	Dia x Ht (mm)	Screw Cap Size	Qty/Case
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### With White Polypropylene Cap/Polyvinyl Liner

W216836	1	30	31 x 79	20-400	48
W216837	2	60	39 x 94	20-400	24
W216838	4	125	48 x 112	22-400	24
W216839	8	250	60 x 136	24-400	12
W216840	16	500	75 x 168	28-400	12
W216841	32	1000	94 x 206	33-400	12

### With White Polypropylene Cap/PTFE Faced Polyethylene Liner

W216842	1	30	31 x 79	20-400	48
W216843	2	60	39 x 94	20-400	24
W216844	4	125	48 x 112	22-400	24
W216845	8	250	60 x 136	24-400	12
W216846	16	500	75 x 168	28-400	12
W216847	32	1000	94 x 206	33-400	12

### With Black Phenolic Cap/Poly-Seal® Liner

W216848	1	30	31 x 79	20-400	48
W216849	2	60	39 x 94	20-400	24
W216850	4	125	48 x 112	22-400	24
W216851	8	250	60 x 136	24-400	12
W216852	16	500	75 x 168	28-400	12
W216853	32	1000	94 x 206	33-400	12

### With Black Phenolic Cap/Rubber Liner

W216854	2	60	39 x 94	20-400	24
W216855	4	125	48 x 112	22-400	24
W216856	8	250	60 x 136	24-400	12
W216857	16	500	75 x 168	28-400	12
W216858	32	1000	94 x 206	33-400	12

### With White Polypropylene Cap/Polyvinyl Liner Bulk

W216859	1	30	31 x 79	20-400	432
W216860	2	60	39 x 94	20-400	288
W216861	4	125	48 x 112	22-400	160
W216862	8	250	60 x 136	24-400	108
W216863	16	500	75 x 168	28-400	60
W216864	32	1000	94 x 206	33-400	30

### Bottles Only Bulk

W216865	1	30	31 x 79	20-400	432
W216866	2	60	39 x 94	20-400	288
W216867	4	125	48 x 112	22-400	160
W216868	8	250	60 x 136	24-400	108
W216869	16	500	75 x 168	28-400	60
W216870	32	1000	94 x 206	33-400	30

\*Approximate capacity

## Replacement Caps for Boston Round Bottles

Cat. No.	Cap Size	Qty/Pack	Qty/Case
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### Black Phenolic/PE Poly-Seal® Liner

239253	20-400	72	144
239255	22-400	72	144
239257	24-400	72	144
239259	28-400	72	144
239260	33-400	72	144

## Replacement Caps for Boston Round Bottles, *continued...*

Cat. No.	Cap Size	Qty/Pack	Qty/Case
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### White Polypropylene/PTFE Faced PE Liner

239229	20-400	72	144
239231	22-400	72	144
239233	24-400	72	144
239235	28-400	72	144
239236	33-400	72	144

### White Polypropylene/Poly-Vinyl Liner

239205	20-400	72	144
239207	22-400	72	144
239209	24-400	72	144
239211	28-400	72	144
239212	33-400	72	144



## French Square Bottles, Clear

- 15-500mL (0.5oz-16oz) sizes
- Square shape maximizes storage space
- Clear for sample observation
- 4 different cap liners

**French Square Bottles** are made with Type III soda-lime glass and meet USP Type III standards. The square design allows full utilization of any storage area, maximizing space efficiency. Bottles are packaged in convenience packs with caps attached or bulk packs without caps. Caps may also be purchased separately.

Cat. No.	Capacity (oz)	Capacity (mL)*	Dia x Ht (mm)	Screw Cap Size	Qty/Case
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### With White Polypropylene Cap/Polyvinyl Liner

W216871	.5	15	26 x 62	20-400	48
W216872	1	30	31 x 72	24-400	48
W216873	2	60	39 x 87	28-400	48
W216874	4	125	45 x 111	33-400	24
W216875	8	250	56 x 137	43-400	24
W216876	16	500	68 x 167	48-400	24

### With White Polypropylene Cap/PTFE Faced Foamed Polyethylene Liner

W216877	.5	15	26 x 62	20-400	48
W216878	1	30	31 x 72	24-400	48
W216879	2	60	39 x 87	28-400	48
W216880	4	125	45 x 111	33-400	24
W216881	8	250	56 x 137	43-400	24
W216882	16	500	68 x 167	48-400	24

### With Black Phenolic Cap/Rubber Liner

W216883	.5	15	26 x 62	20-400	48
W216884	1	30	31 x 72	24-400	48
W216885	2	60	39 x 87	28-400	48
W216886	4	125	45 x 111	33-400	24
W216887	8	250	56 x 137	43-400	24
W216888	16	500	68 x 167	48-400	24

### With Black Phenolic Cap/Poly-Seal Liner

W216889	.5	15	26 x 62	20-400	48
W216890	1	30	31 x 72	24-400	48
W216891	2	60	39 x 87	28-400	48
W216892	4	125	45 x 111	33-400	24

## French Square Bottles, *continued...*

Cat. No.	Capacity (oz)	Capacity (mL)*	Dia x Ht (mm)	Screw Cap Size	Qty/Case
<b>With White Polypropylene Cap/Polyvinyl Liner</b> <b>Bulk</b>					
W216893	1	30	31 x 72	24-400	280
W216894	2	60	39 x 87	28-400	240
W216895	4	125	45 x 111	33-400	120
W216896	8	250	56 x 137	43-400	84
W216897	16	500	68 x 167	48-400	40
<b>Bottles Only</b> <b>Bulk</b>					
W216898	1	30	31 x 72	24-400	280
W216899	2	60	39 x 87	28-400	240
W216900	4	125	45 x 111	33-400	120
W216901	8	250	56 x 137	43-400	84
W216902	16	500	68 x 167	48-400	40

\*Approximate capacity

## Replacement Caps for French Square Bottles

Cat. No.	Cap Size	Qty/Pack	Qty/Case
<b>Black Phenolic/PE Poly-Seal® Liner</b>			
239253	20-400	72	144
239257	24-400	72	144
239259	28-400	72	144
239260	33-400	72	144
<b>White Polypropylene/PTFE Faced PE Liner</b>			
239229	20-400	72	144
239233	24-400	72	144
239235	28-400	72	144
239236	33-400	72	144
239238	43-400	72	72
239240	48-400	72	72
<b>White Polypropylene with Polyvinyl Liner</b>			
239205	20-400	72	144
239209	24-400	72	144
239211	28-400	72	144
239212	33-400	72	144
239214	43-400	72	72
239216	48-400	72	72



## Graduated Bottles, Clear

- 30-500mL (1oz-16oz) sizes
- Easy removal of contents
- Graduated in mL and oz

Graduated bottles are ideal for general storage. With the choice of two different liners, these bottles are excellent for storage of liquid or dry materials. They come packaged in convenience packs with caps attached or bulk packs without caps. Caps may also be purchased separately.

Cat. No.	Capacity (oz)	Capacity (mL)*	Dia x Ht (mm)	Screw Cap Size	Qty/Case
<b>With White Polypropylene Cap/Polyvinyl Liner</b>					
W216966	1	30	34 x 68	33-400	48
W216967	2	60	42 x 83	38-400	48
W216968	4	125	51 x 102	48-400	24
W216969	8	250	62 x 127	58-400	24
W216970	16	500	76 x 145	70-400	24

## Graduated Bottles, *continued...*

Cat. No.	Capacity (oz)	Capacity (mL)*	Dia x Ht (mm)	Screw Cap Size	Qty/Case
<b>With White Polypropylene Cap/PTFE Faced Foamed Polyethylene Liner</b>					
W216971	1	30	34 x 68	33-400	48
W216972	2	60	42 x 83	38-400	48
W216973	4	125	51 x 102	48-400	24
W216974	8	250	62 x 127	58-400	24
W216975	16	500	76 x 145	70-400	24
<b>With Black Phenolic Cap/Poly-Seal® Liner</b>					
W216976	1	30	34 x 68	33-400	48
W216977	2	60	42 x 83	38-400	48
<b>With Black Phenolic Cap/Rubber Liner</b>					
W216978	1	30	34 x 68	33-400	48
W216979	2	60	42 x 83	38-400	48
W216980	4	125	51 x 102	48-400	24
W216981	8	250	62 x 127	58-400	24
<b>With White Polypropylene Cap/Polyvinyl Liner</b> <b>Bulk</b>					
W216982	1	30	34 x 68	33-400	432
W216983	2	60	42 x 83	38-400	288
W216984	4	125	51 x 102	48-400	144
W216985	8	250	62 x 127	58-400	96
W216986	16	500	76 x 145	70-400	48
<b>With Black Phenolic Cap/Poly-Seal® Liner</b> <b>Bulk</b>					
W216987	1	30	34 x 68	33-400	432
W216988	2	60	42 x 83	38-400	288
<b>Bottles Only</b> <b>Bulk</b>					
W216989	1	30	34 x 68	33-400	432
W216990	2	60	42 x 83	38-400	288
W216991	4	125	51 x 102	48-400	144
W216992	8	250	62 x 127	58-400	96
W216993	16	500	76 x 145	70-400	48

\*Approximate capacity

## Replacement Caps for Graduated Bottles

Cat. No.	Cap Size	Qty/Pack	Qty/Case
<b>Black Phenolic/PE Poly-Seal® Liner</b>			
239260	33-400	72	144
<b>White Polypropylene/PTFE Faced PE Liner</b>			
239236	33-400	72	144
239237	38-400	72	72
239240	48-400	72	72
239242	58-400	72	72
239244	70-400	24	48
<b>White Polypropylene/Polyvinyl Liner</b>			
239212	33-400	72	144
239213	38-400	72	72
239216	48-400	72	72
239218	58-400	72	72
239220	70-400	24	48



## Oil Sample Bottle, Clear

- Clear, Type III soda lime glass
- Bottles come with cork inserted

Cat. No.	Capacity (oz)	Capacity (mL)	Dia x Ht (mm)	Qty/Case
W216994	4	125	37 x 163	144

\*Approximate capacity

# Glass Bottles



## Standard Wide Mouth Bottles, Clear

- Clear, Type III soda lime glass
- 125-4000mL (4oz-130oz) sizes
- Largest bottles available
- Ready-to-use storage container

**Standard Wide Mouth bottles** are ideal for general small to large volume storage. Caps available with the choice of two different liners. Bottles are packaged in convenience packs with caps attached or bulk packs without caps. Caps may also be purchased separately.

Cat. No.	Capacity (oz)	Capacity (mL)*	Dia x Ht (mm)	Screw Cap Size	Qty/Case
<b>With White Polypropylene Cap/Polyvinyl Liner</b>					
W216924	4	125	52 x 84	48-400	24
W216925	8	250	63 x 110	58-400	24
W216926	16	500	79 x 133	63-400	24
W216927	65	2000	122 x 213	83-400	6
W216928	130	4000	157 x 256	89-400	4
<b>With White Polypropylene Cap/PTFE Faced Foamed Polyethylene Liner</b>					
W216929	4	125	52 x 84	48-400	24
W216930	8	250	63 x 110	58-400	24
W216931	16	500	79 x 133	63-400	24
W216932	65	2000	122 x 213	83-400	6
W216933	130	4000	157 x 256	89-400	4
<b>Bottles Only</b>					
W216934	4	125	52 x 84	48-400	24
W216935	8	250	63 x 110	58-400	24
W216936	16	500	79 x 133	63-400	24
W216937	65	2000	122 x 213	83-400	6
W216938	130	4000	157 x 256	89-400	4

\*Approximate capacity

## Replacement Caps for Standard Wide Mouth Bottles

Cat. No.	Cap Size	Qty/Pack	Qty/Case
<b>White Polypropylene/PTFE Faced PE Liner</b>			
239240	48-400	72	72
239242	58-400	72	72
239243	63-400	24	48
239245	83-400	24	48
239246	89-400	24	48
<b>White Polypropylene/Polyvinyl Liner</b>			
239216	48-400	72	72
239218	58-400	72	72
239219	63-400	24	48
239221	83-400	24	48
239222	89-400	24	48

Promote safety with **Second Skin™ Safety Coated Bottles.**

See more details on pages 11 & 12



## Straight Sided Jars, Clear

- Clear Type III soda lime glass
- 60-1000mL (2oz-32oz) sizes
- Wide mouth design is great for large solid samples
- Walls allow for complete removal of contents
- Ideal for soil sampling and environmental applications

**Straight Sided Jars** are packaged in convenience packs with caps attached or bulk packs without caps. Caps may also be purchased separately.

Cat. No.	Capacity (oz)	Capacity (mL)*	Dia x Ht (mm)	Screw Cap Size	Qty/Case
<b>With White Polypropylene Cap/Polyvinyl Liner</b>					
W216903	2	60	55 x 48	53-400	24
W216904	4	125	60 x 68	58-400	24
W216905	8	250	73 x 88	70-400	12
W216906	16	500	91 x 95	89-400	12
W216907	32	1000	95 x 170	89-400	12
<b>With White Polypropylene Cap/PTFE Faced Foamed Polyethylene Liner</b>					
W216908	2	60	55 x 48	53-400	24
W216909	4	125	60 x 68	58-400	24
W216910	8	250	73 x 88	70-400	12
W216911	16	500	91 x 95	89-400	12
W216912	32	1000	95 x 170	89-400	12
<b>With Black Phenolic Cap/Rubber Liner</b>					
W216913	4	125	60 x 68	58-400	24
<b>With White Polypropylene Cap/Polyvinyl Liner <span style="background-color: #008080; color: white; border-radius: 50%; padding: 2px;">Bulk</span></b>					
W216914	2	60	55 x 48	53-400	144
W216915	4	125	60 x 68	58-400	24
W216916	8	250	73 x 88	70-400	24
W216917	16	500	91 x 95	89-400	12
W216918	32	1000	95 x 170	89-400	12

## Bottles Only Bulk

W216919	2	60	55 x 48	53-400	144
W216920	4	125	60 x 68	58-400	24
W216921	8	250	73 x 88	70-400	24
W216922	16	500	91 x 95	89-400	12
W216923	32	1000	95 x 170	89-400	12

\*Approximate capacity

## Replacement Caps for Straight Sided Jars

Cat. No.	Cap Size	Qty/Pack	Qty/Case
<b>White Polypropylene/PTFE Faced PE Liner</b>			
239241	53-400	72	72
239242	58-400	72	72
239243	63-400	24	48
239244	70-400	24	48
239245	83-400	24	48
239246	89-400	24	48
<b>White Polypropylene/Polyvinyl Liner</b>			
239217	53-400	72	72
239218	58-400	72	72
239219	63-400	24	48
239220	70-400	24	48
239221	83-400	24	48
239222	89-400	24	48



## Wide Mouth Packers, Amber

- 30-1000mL (1oz-32oz) sizes
- Ideal for storage of dry powders
- Easy removal of contents
- For light-sensitive samples
- Amber, Type III soda-lime glass

**Amber Wide Mouth Packers** can be used to store light-sensitive samples. The wide mouth design allows for easier handling of dry or solid samples. These bottles are packaged in convenience packs with caps attached or bulk packs without caps. Caps may also be purchased separately.

Cat. No.	Capacity (oz)	Capacity (mL)*	Dia x Ht (mm)	Screw Cap Size	Qty/Case
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### With White Polypropylene Cap/Polyvinyl Liner

W216939	1	30	37 x 65	28-400	24
W216940	2	60	44 x 75	33-400	24
W216941	4	125	54 x 95	38-400	24
W216942	8	250	66 x 119	45-400	24
W216943	16	500	80 x 146	53-400	12
W216944	32	1000	99 x 178	53-400	12

### With White Polypropylene Cap/PTFE Faced Foamed Polyethylene Liner

W216945	1	30	37 x 65	28-400	24
W216946	2	60	44 x 75	33-400	24
W216947	4	125	54 x 95	38-400	24
W216948	8	250	66 x 119	45-400	24
W216949	16	500	80 x 146	53-400	12
W216950	32	1000	99 x 178	53-400	12

### With Black Phenolic Cap/Poly-Seal Liner

W216951	1	30	37 x 65	28-400	24
W216952	2	60	44 x 75	33-400	24
W216953	4	125	54 x 95	38-400	24

### With White Polypropylene Cap/Polyvinyl Liner

W216954	1	30	37 x 65	28-400	432
W216955	2	60	44 x 75	33-400	216
W216956	4	125	54 x 95	38-400	180
W216957	8	250	66 x 119	45-400	84
W216958	16	500	80 x 146	53-400	60
W216959	32	1000	99 x 178	53-400	36

### Bottles Only

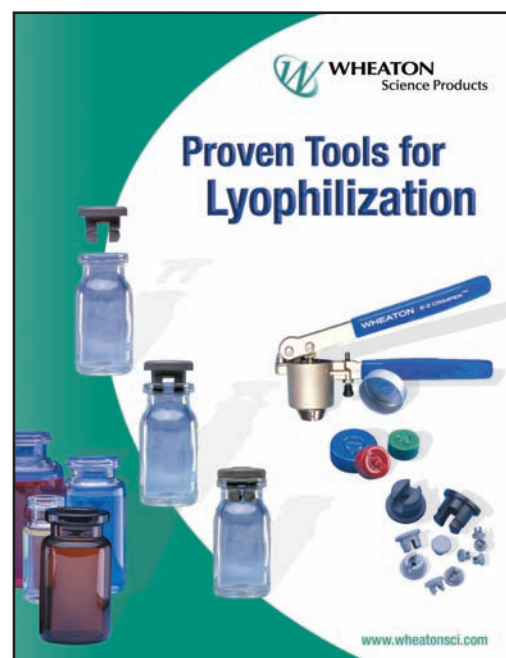
W216960	1	30	37 x 65	28-400	432
W216961	2	60	44 x 75	33-400	216
W216962	4	125	54 x 95	38-400	180
W216963	8	250	66 x 119	45-400	84
W216964	16	500	80 x 146	53-400	60
W216965	32	1000	99 x 178	53-400	36

\*Approximate capacity

## Replacement Caps for Wide Mouth Packers

Cat. No.	Cap Size	Qty/Pack	Qty/Case
<b>Black Phenolic/PE Poly-Seal® Liner</b>			
239259	28-400	72	144
239260	33-400	72	144
<b>White Polypropylene/PTFE Faced PE Liner</b>			
239235	28-400	72	144
239236	33-400	72	144
239237	38-400	72	72
239239	45-400	72	72
239241	53-400	72	72
<b>White Polypropylene/Polyvinyl Liner</b>			
239211	28-400	72	144
239212	33-400	72	144
239213	38-400	72	72
239215	45-400	72	72
239217	53-400	72	72

For Serum Bottles, see our Lyophilization brochure.



Download from [www.WHEATONsci.com](http://www.WHEATONsci.com)  
or email [jackie.garrison@WHEATON.com](mailto:jackie.garrison@WHEATON.com) with your request.

Amber Jars are Ideal for Light-Sensitive Samples

# Plastic Bottles



## Cylinder Round Bottles, HDPE, Natural

- High Density Polyethylene, natural color
- Good chemical resistance
- Narrow mouth ideal for liquids
- 30 – 500mL size
- Pre-attached white polypropylene screw cap with foamed polyethylene liner

Cat. No.	Capacity (oz)	Capacity (mL)*	Dia x Ht (mm)	Screw Cap Size	Qty/Case
221153	1	30	28 x 80	20-410	72
221154	2	60	35 x 98	20-410	72
221155	4	125	41 x 123	20-410	72
221159	16	500	67 x 176	28-410	48

\*Approximate capacity



## Cylinder Round Bottles, HDPE, White

- High Density Polyethylene, white color
- White HDPE helps protect light sensitive samples
- Good chemical resistance
- Narrow mouth ideal for liquids
- 30 – 180mL size
- Pre-attached white polypropylene screw cap with foamed polyethylene liner.

Cat. No.	Size (mL)	Dia x Ht (mm)	Screw Cap Size	Qty/Pack	Qty/Case
221163	30	27 x 78	20-410	12	72
221164	60	35 x 98	20-410	12	72
221165	120	41 x 123	24-410	12	72
221166	180	47 x 139	24-410	12	72

For more information on plastic resins, see page 10  
For chemical capability of various materials, see page 14



## Dispensing Bottles, LDPE, Translucent

- Low Density Polyethylene, translucent color
- LDPE is very flexible with high impact strength
- Excellent for mild and strong buffers, good chemical resistance
- Squeezing the bottle produces a steady stream of liquid
- 30 – 125mL size
- Red tip seals a linerless cap

Cat. No.	Size (mL)	Dia x Ht (mm)	Screw Cap Size	Qty/Pack	Qty/Case
211153	30	32 x 99	20-410	12	72
211154	60	39 x 114	20-410	12	48
211155	125	47 x 142	20-410	12	48



## Dispensing Bottles, LDPE, Translucent

- Low Density Polyethylene, translucent color
- LDPE is very flexible with high impact strength
- Excellent for mild and strong buffers, good chemical resistance
- Raise the spout to dispense contents and depress spout to seal bottle
- 60 – 500mL size

Cat. No.	Size (mL)	Dia x Ht (mm)	Screw Cap Size	Qty/Pack	Qty/Case
211194	60	39 x 92	20-410	12	144
211195	125	43 x 130	20-410	12	72
211199	500	68 x 180	28-410	6	36



## Jug, HDPE

- High Density Polyethylene, natural color
- Good chemical resistance
- Narrow mouth ideal for liquids
- 1 gallon size
- Pre-attached white polypropylene screw cap with polyvinyl liner

Cat. No.	Size	Cross Section x Ht (mm)	Screw Cap Size	Qty/Case
222333	1 gallon	143 x 285	38-400	4



## Leak-Resistant Narrow-Mouth Bottles

- HDPE, LDPE or Polypropylene
- Amber or natural
- Leak-resistant design with double-seal closure
- No-drip pour lip for safe and clean pouring
- Cap attached

Premium **narrow-mouth plastic bottles** feature our superior double-seal closure, which is designed to be leak-resistant. The special no-drip pour lip ensures safe, clean pouring. Bottles are convenience-packed with closures attached.

Cat. No.	Capacity (oz)	Capacity (mL)*	Dia x Ht (mm)	Screw Cap Size	Qty/Pack	Qty/Case
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### Low-Density Polyethylene, Natural

208923	.3	8	25 x 43	20-410	12	72
208924	.5	15	25 x 56	20-410	12	72
208925	1	30	32 x 69	20-410	12	72
208926	2	60	39 x 84	20-410	12	72
208927	4	125	50 x 101	24-410	12	72
208928	8	250	61 x 129	24-410	12	72
208929	16	500	72 x 171	28-410	12	48

### High-Density Polyethylene, Natural

209041	.1	4	16 x 38	13-425	12	72
209043	.3	8	25 x 43	20-410	12	72
209044	.5	15	25 x 56	20-410	12	72
209045	1	30	32 x 69	20-410	12	72
209046	2	60	34 x 84	20-410	12	72
209047	4	125	50 x 101	24-410	12	72
209048	8	250	61 x 129	24-410	12	72
209049	16	500	72 x 171	28-410	12	48
209050	32	1000	91 x 210	38-430	6	24

### High-Density Polyethylene, Amber

209121	.1	4	16 x 38	13-425	12	72
209123	.3	8	25 x 43	20-410	12	72
209124	.5	15	25 x 56	20-410	12	72
209125	1	30	32 x 69	20-410	12	72
209126	2	60	34 x 84	20-410	12	72
209127	4	125	50 x 101	24-410	12	72
209128	8	250	61 x 129	24-410	12	72
209129	16	500	72 x 171	28-410	12	48
209130	32	1000	91 x 210	38-430	6	24

### Polypropylene, Natural (Autoclavable)

209161	.1	4	16 x 38	13-425	12	72
209163	.3	8	25 x 43	20-410	12	72
209164	.5	15	25 x 56	20-410	12	72
209165	1	30	32 x 69	20-410	12	72
209166	2	60	34 x 84	20-410	12	72
209167	4	125	50 x 101	24-410	12	72
209168	8	250	61 x 129	24-410	12	72
209169	16	500	72 x 171	28-410	12	48
209170	32	1000	91 x 210	38-430	6	24

\*Approximate capacity

Polypropylene Bottles are Autoclavable



## Leak-Resistant Wide-Mouth Bottles

- HDPE, LDPE or Polypropylene
- Amber or natural
- Leak-resistant design with double-seal closure
- No-drip pour lip for safe and clean pouring
- Cap attached

Premium **wide-mouth plastic bottles** feature a superior double-seal closure, designed to be leak-resistant. The special no-drip pour lip ensures safe, clean dispensing. These bottles are convenience-packed with closures attached.

Cat. No.	Capacity (oz)	Capacity (mL)*	Dia x Ht (mm)	Screw Cap Size	Qty/Pack	Qty/Case
----------	---------------	----------------	---------------	----------------	----------	----------

### Low-Density Polyethylene, Natural

209425	1	30	33 x 69	28-410	12	72
209426	2	60	39 x 88	28-410	12	72
209427	4	125	51 x 98	38-410	12	72
209428	8	250	61 x 125	43-410	12	72
209429	16	500	72 x 164	53-410	12	48

### High-Density Polyethylene, Natural

209545	1	30	33 x 69	28-410	12	72
209546	2	60	39 x 88	28-410	12	72
209547	4	125	51 x 98	38-410	12	72
209548	8	250	61 x 125	43-410	12	72
209549	16	500	72 x 164	53-410	12	48
209550	32	1000	91 x 199	63-415	12	48

### High-Density Polyethylene, Amber

209625	1	30	33 x 69	28-410	12	72
209626	2	60	39 x 88	28-410	12	72
209627	4	125	51 x 98	38-410	12	72
209628	8	250	61 x 125	43-410	12	72
209629	16	500	72 x 164	53-410	12	48
209630	32	1000	91 x 199	63-415	12	48

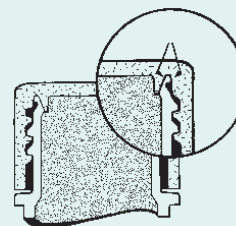
### Polypropylene, Natural (Autoclavable)

209665	1	30	33 x 69	28-410	12	72
209666	2	60	39 x 88	28-410	12	72
209667	4	125	51 x 98	38-410	12	72
209668	8	250	61 x 125	43-410	12	72
209669	16	500	72 x 164	53-410	12	48

\*Approximate capacity

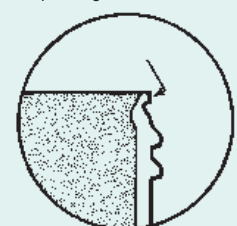
#### Double Seal Closure

Leakproof double seal ensures safe transport for sample



#### No-Drip Pour Lip

Special lip is designed to prevent liquids from spilling down the side while pouring



# Plastic Bottles



## Round Bottles, LDPE, Translucent

- Low Density Polyethylene, translucent color
- LDPE is very flexible with high impact strength
- Excellent for mild and strong buffers, good chemical resistance
- Narrow mouth ideal for liquids
- 7 – 125mL size
- Pre-attached white polypropylene screw cap with foamed polyethylene liner

Cat. No.	Size (mL)	Dia x Ht (mm)	Screw Cap Size	Qty/Pack	Qty/Case
221140	7	19 x 63	15-415	12	144
221142	15	25 x 78	15-415	12	144
221143	30	33 x 73	20-410	12	72
221144	60	39 x 88	20-410	12	72
221145	125	47 x 109	20-410	12	72



PET Bottle



Sterile PET Bottle

## PET Bottles, Transparent

- Polyethylene Terephthalate, transparent
- PET offers clarity of glass with safety of plastic
- Good alcohol and solvent barrier; not good for strong acids and bases
- Sterilizable through EtO and gamma radiation
- 120mL cylinder round style, smaller sizes have sloped shoulders
- Narrow mouth ideal for liquids
- 22 – 120mL size
- Pre-attached white polypropylene screw cap with foamed polyethylene liner

Cat. No.	Size (mL)	Dia x Ht (mm)	Screw Cap Size	Qty/Pack	Qty/Case
221131	22	29 x 64	20-415	12	72
221133	45	36 x 76	20-400	12	72
221135	120	41 x 120	20-410	12	72

## PET Bottle, Transparent, Sterile

- Sterile and individually wrapped
- Excellent for sensitive cell culture or production sampling
- Good chemical resistance against mild acids, oils and alcohol
- PET offers clarity of glass with safety of plastic
- Narrow mouth ideal for liquids
- 125mL size
- Pre-attached white polypropylene screw cap with foamed polyethylene liner

Cat. No.	Size (mL)	Dia x Ht (mm)	Screw Cap Size	Qty/Case
219955	125	52 x 115	33-430	12



## Wide-Mouth Blake Packer, HDPE, Natural

- High Density Polyethylene, natural
- Good chemical resistance
- Blake style maximizes storage space
- Wide mouth ideal for solids
- 120 – 1000mL size
- Pre-attached white polypropylene screw cap with foamed polyethylene liner

Cat. No.	Capacity (oz)	Capacity (mL)*	Dia x Ht (mm)	Screw Cap Size	Qty/Case
209683	4	120	41 x 50 x 94	38-400	72
209685	16	500	62 x 77 x 149	43-400	48
209686	32	1000	79 x 96 x 192	53-400	24



## Wide-Mouth Round Packer, HDPE, Natural

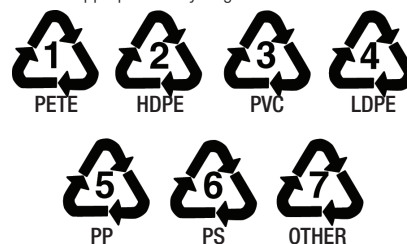
- High Density Polyethylene, natural
- Good chemical resistance
- Round style
- Wide mouth ideal for solids
- 60 – 1000mL size
- Pre-attached white polypropylene screw cap with foamed polyethylene liner

Cat. No.	Capacity (oz)	Capacity (mL)*	Dia x Ht (mm)	Screw Cap Size	Qty/Case
209672	2	60	39 x 77	33-400	72
209673	4	120	50 x 88	38-400	72
209674	8	250	65 x 102	53-400	72
209675	16	500	77 x 142	53-400	48
209676	32	1000	95 x 179	53-400	24

\*Approximate capacity

### Recycling Plastic

We follow the Society of Plastics Industry guidelines for marking all plastic containers with the appropriate recycling code numbers as shown below:



WHEATON marks their containers on the bottom with the appropriate resin recycle code.

**NEW**



## Wide Mouth Plastic Containers

- Wide-mouth design is ideal for large solid samples
- Safer to use than glass jars
- Choice of resins: HDPE, polypropylene or polystyrene
- Clear polystyrene offers clarity of glass
- Polypropylene is autoclavable
- 30 to 3840mL size
- Optional foam-lined caps help prevent leaks

The WHEATON lines of wide mouth plastic containers are ideal for use with powders and solids. The large surface area of these containers makes it easy to label, either on the wide-mouth cap or directly on the side of the container. Unlike glass jars, plastic jars will not break easily when bumped or dropped. This makes these jars an excellent choice for lab or field sampling. Only the polypropylene containers are autoclavable.



## Wide Mouth Container, PP (Autoclavable)

- Durable container with good chemical resistance
- 30 to 1000mL size
- Pre-attached white polypropylene screw cap unlined or with foamed polyethylene liner
- Polypropylene, with unlined cap is autoclavable

Cat. No.	Size (mL)	Screw Cap Size	Qty/Case
<b>Polypropylene with Unlined Cap Attached (Autoclavable)</b>			
W209900	30	43-400	72
W209901	60	53-400	48
W209902	125	58-400	36
W209903	250	89-400	36
W209904	500	89-400	24
W209905	1000	120-400	24
<b>Polypropylene with *PE Lined Cap Attached</b>			
W209906	30	43-400	72
W209907	60	53-400	48
W209908	125	58-400	36
W209909	250	89-400	36
W209910	500	89-400	24
W209911	1000	120-400	24

\*Polyethylene



## Wide Mouth Container, Polystyrene

- Clear polystyrene offers clarity of glass and safety of plastic
- Good resistance to inorganic chemicals
- 30 to 1000mL size
- Pre-attached white polypropylene screw cap with foamed polyethylene liner

Cat. No.	Size (mL)	Screw Cap Size	Qty/Case
W209912	30	43-400	72
W209913	60	53-400	48
W209914	125	58-400	36
W209915	250	89-400	36
W209916	500	89-400	24
W209917	1000	120-400	24



## Wide Mouth Container, HDPE

- HDPE, natural color
- Good chemical resistance
- Largest container available: 2000 to 3840mL size
- Pre-attached white polypropylene screw cap with foamed polyethylene liner

Cat. No.	Size (mL)	Screw Cap Size	Qty/Case
W209677	2000	89-400	6
W209678	3000	100-400	4
W209679	3840	89-400	4

## Plastic Resins

### High Density Polyethylene (HDPE)

Flexible but more rigid than LDPE. Natural color is milky white, semi-translucent depending on density. Good impact strength and stress crack resistance. Good chemical resistance. Good vapor barrier but poor gas barrier. Sterilizable via EtO or gamma radiation. SPI recycling code number - (2).

### Low Density Polyethylene (LDPE)

Very flexible, natural milky color, translucent with high impact strength. Excellent for mild and strong buffers, good chemical resistance. Good water vapor and alcohol barrier properties. Poor gas barrier, sterilizable with EtO or gamma radiation. Good stress crack and impact resistance. SPI recycling code number - (4).

### Polyethylene Terephthalate (PET)

Semi-rigid to rigid depending on wall thickness. Natural color - clear and transparent. Good alcohol and solvent barrier; good gas and fair moisture barrier. Good to fair chemical barrier; not good for strong acids or bases. Good moldability. Sterilizable through EtO and gamma radiation. Good stress crack and impact at room temperature and above. SPI recycling code number - (1).

### Polypropylene (PP)

Rigid, solid, durable in container or cap forms. Opaque, natural grayish yellow in natural form. Excellent stress crack and impact resistance. Excellent moisture barrier, good oil and alcohol barrier, poor gas barrier properties. Good chemical resistance. Sterilizable with EtO or autoclaving. SPI recycling code number - (5).

### Polystyrene (PS)

PS is a transparent, rigid and glasslike polymer. Good resistance to inorganic chemicals. Light and heat stable, biologically inert and non-toxic. Good impact and stress crack resistance, poor barrier properties. EtO or Gamma sterilizable. SPI recycling code number - (6).



# Safety Bottles



## WHEATON Second Skin™ Safety Coated Bottles

- Promotes safety by containing content if bottle is accidentally dropped
- PVC-based plastisol coats exterior of bottle
- Sizes from 4oz to 5 gallon
- Clear or amber glass
- Available with or without caps
- Choice of bottle style depends on application

Create a safe work environment with WHEATON's Second Skin Safety Coated Bottles. If a bottle is accidentally broken, the PVC based plastisol coating on the bottle contains the contents long enough for proper disposal. Ideal for lab or field applications, the bottle's non-slip coating allows greater ease and stability when handling wet or dry. Most bottles are manufactured with Type III soda lime glass, and they meet USP Type III standards. The media and reagent bottles are manufactured from Type I borosilicate glass which meets USP Type I standards. Only the media bottles can be autoclaved.



## Safety-Coated Bottles, Clear Glass

- Plastisol Second Skin for safety
- Clear Type III soda lime glass
- Available with or without caps
- 16 & 32 oz Boston Round style
- 80 oz with jug handle

Cat. No.	Approx Size (oz)	Dia x Ht cap on (mm)	Dia x Ht cap off (mm)	Screw Cap Size	Qty/Case
<b>With Aluminum Foil Lined Black Phenolic Cap</b>					
220735	16	76 x 172	76 x 170	28-400	24
220736	32	96 x 210	96 x 208	33-400	12
220738	80*	135 x 295	135 x 291	38-439	6

## Safety-Coated Bottles, continued...

Cat. No.	Approx Size (oz)	Dia x Ht cap on (mm)	Dia x Ht cap off (mm)	Screw Cap Size	Qty/Case
<b>With Polyethylene (LDPE) Lined Black Phenolic Cap</b>					
220745	16	76 x 172	76 x 170	28-400	24
220746	32	96 x 210	96 x 208	33-400	12
<b>With Poly-Seal® LDPE Cone Lined Black Phenolic Cap</b>					
220755	16	76 x 172	76 x 170	28-400	24
220756	32	96 x 210	96 x 208	33-400	12
<b>With PTFE Faced Rubber Lined Black Phenolic Cap</b>					
220775	16	76 x 172	76 x 170	28-400	24
220776	32	96 x 210	96 x 208	33-400	12
<b>Without Cap</b>					
220725	16	76 x 172	76 x 170	28-400	24
220726	32	96 x 210	96 x 208	33-400	12
220728	80*	135 x 295	135 x 291	38-439	6

\*Manufactured with jug handle



## Safety-Coated Bottles, Amber Glass

- Plastisol Second Skin for safety
- Amber Type III soda lime glass
- Available with or without caps
- 8, 16 & 32 oz Boston Round style
- 4L with jug handle

Cat. No.	Approx Size (oz)	Dia x Ht cap on (mm)	Dia x Ht cap off (mm)	Screw Cap Size	Qty/Case
<b>With Aluminum Foil Lined Black Phenolic Cap</b>					
220935	16	76 x 172	76 x 170	28-400	24
220936	32	96 x 210	96 x 208	33-400	12
220939	4L	160 x 340	160 x 336	38-430	4
<b>With Polyethylene (LDPE) Lined Black Phenolic Cap</b>					
220945	16	76 x 172	76 x 170	28-400	24
220946	32	96 x 210	96 x 208	33-400	12
220949	4L	160 x 340	160 x 336	38-430	4
<b>With Poly-Seal® LDPE Cone Lined Black Phenolic Cap</b>					
220955	16	76 x 172	76 x 170	28-400	24
220956	32	96 x 210	96 x 208	33-400	12
220959	4L	160 x 340	160 x 336	38-430	4
<b>With PTFE Faced Rubber Lined Black Phenolic Cap</b>					
220975	16	76 x 172	76 x 170	28-400	24
220976	32	96 x 210	96 x 208	33-400	12
220979	4L	160 x 340	160 x 336	38-430	4
<b>Without Cap</b>					
220924	8	62 x 142	62 x 140	24-400	48
220925	16	76 x 172	76 x 170	28-400	24
220926	32	96 x 210	96 x 208	33-400	12
220929	4L*	160 x 340	160 x 336	38-430	4

\*Manufactured with jug handle

**See Replacement Caps on Page 13**



## Safety-Coated Jars

- Plastisol Second Skin for safety
- Clear Type III glass only
- Wide mouth for use with solid samples
- Available with or without caps

Cat. No.	Approx Size (oz)	Dia x Ht cap on (mm)	Dia x Ht cap off (mm)	Screw Cap Size	Qty/Case
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### With Polyvinyl Lined Black Phenolic Cap

216627	8	75 x 92	75 x 90	70-400	12
216629	16	78 x 147	78 x 146	70-400	12
216631	32	95 x 182	95 x 180	70-400	12

### Without Cap

216637	8	75 x 92	75 x 90	70-400	12
216639	16	78 x 147	78 x 146	70-400	12
216641	32	95 x 182	95 x 180	70-400	12



## Safety-Coated Lab 45<sup>®</sup> Media/Reagent Bottles

- Plastisol Second Skin for safety
- Clear Type I borosilicate glass
- 45mm white polypropylene screw cap attached
- Pour ring eliminates drips
- 100 to 1000mL size
- Autoclavable
- Color coded caps available separately

Cat. No.	Size (mL)	Approx Dia x Ht (mm)	Screw Cap Size	Qty/Case
219935	100	56 x 109	45	12
W219937	250	70 x 144	45	12
219939	500	86 x 186	45	12
219940	1000	101 x 233	45	12



## Color Coded Caps for Lab 45<sup>®</sup> Bottles

Cat. No.	Description	Size (mm)	Qty/Case
240726	White PP, w/ Wedge-Shaped Inner Sealing Ring	45	12
240726-03	Red PP, w/Wedge-Shaped Inner Sealing Ring	45	12
240726-04	Blue PP, w/Wedge-Shaped Inner Sealing Ring	45	12
240726-06	Green PP, w/Wedge-Shaped Inner Sealing Ring	45	12



## Safety-Coated Bottle with Writing Patch

- Plastisol Second Skin for safety
- Clear Type I borosilicate glass
- 33-430 screw cap attached
- Cap liner PTFE faced foamed polyethylene
- 125 & 250mL size
- Autoclavable

Cat. No.	Size (mL)	Approx Dia x Ht (mm)	Screw Cap Size	Qty/Case
221014	125	58 x 122	33-430	6
221017	250	69 x 151	33-430	6



## Safety-Coated Solution Bottle

- Plastisol Second Skin for safety
- Clear Type I low extractable borosilicate glass
- Serum finish takes rubber stopper closure
- Not Autoclavable

Cat. No.	Size	Approx Dia x Ht (mm)	Screw Cap Size	Qty/Case
221029	5 gallon	294 x 502	12	1

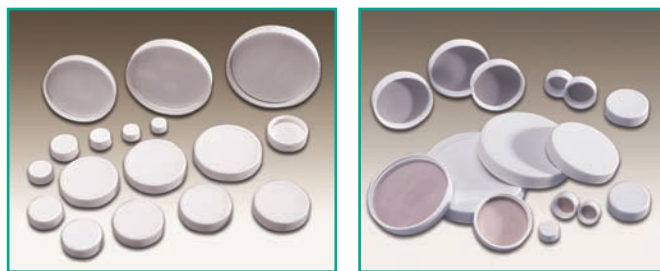
# Screw Caps

## WHEATON Screw Caps

Designed for use with WHEATON glass containers, WHEATON screw caps create a positive seal that protects against product escaping and prevents product contamination by outside substances. White polypropylene caps are available with PTFE faced foam polyethylene or poly-vinyl liners. Also available are black phenolic caps lined with Poly-Seal® polyethylene cone and 14B rubber liners. Black phenolic cap with rubber liner is autoclavable.

Note: The selection of the liner is by far the most important step in determining the success or failure of your package. WHEATON recommends the following criteria for liner selection:

- Conformity with regulations - EPA and FDA
- Chemical resistance
- Sealing ability against moisture/gas gain or loss, leakage, pressure buildup, and corrosive packaging
- Avoidance of "overpackaging" - selecting the most economical liner for the required applications



the required applications

Cat. No.	Cap Size	Qty/Pack	Qty/Case
<b>White Polypropylene Cap with Polyvinyl Liner</b>			
239205	20-400	72	144
239207	22-400	72	144
239209	24-400	72	144
239211	28-400	72	144
239212	33-400	72	144
239213	38-400	72	72
239214	43-400	72	72
239215	45-400	72	72
239216	48-400	72	72
239217	53-400	72	72
239218	58-400	72	72
239219	63-400	24	48
239220	70-400	24	48



239221	83-400	24	48
239222	89-400	24	48

Cat. No.	Cap Size	Qty/Pack	Qty/Case
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### White Polypropylene Cap with PTFE faced Foamed Polyethylene Liner

239229	20-400	72	144
239231	22-400	72	144
239233	24-400	72	144
239235	28-400	72	144
239236	33-400	72	144
239237	38-400	72	72
239238	43-400	72	72
239239	45-400	72	72
239240	48-400	72	72
239241	53-400	72	72
239242	58-400	72	72
239243	63-400	24	48
239244	70-400	24	48
239245	83-400	24	48
239246	89-400	24	48

### Black Phenolic Cap with LDPE Poly-Seal® Liner

239253	20-400	72	144
239255	22-400	72	144
239257	24-400	72	144
239259	28-400	72	144
239260	33-400	72	144

### Black Phenolic Cap with Rubber Liner

W239298	20-400	72	144
W239299	22-400	72	144
W239300	24-400	72	144
W239301	28-400	72	144
W239302	33-400	72	144
W239303	38-400	72	72
240281	38-430	—	200
W239304	43-400	72	72
W239306	48-400	72	72
W239308	58-400	72	72

### Black Phenolic Cap with PTFE Faced (14B) Styrene-Butadiene Rubber Liner

240419	28-400	—	100
240421	33-400	—	100
240481	38-430	—	100

### Black Phenolic Cap with Aluminum Foil Liner

240319	28-400	—	100
240321	33-400	—	100
240381	38-430	—	200

## Cap Liner Technical Chart

Material	Description	Applications
<b>Polyvinyl</b>	One Mil poly Vinyl film bonded to one Mil HDPE on a #30 white pulp paper backing. Superior to plain pulp paper because it provides an excellent moisture barrier.	General purpose: Suitable for wide range of applications. Chemical resistance: Good for mild acids, alkalis, solvents, alcohols, oils and aqueous products. Poor for active hydrocarbons and bleaches.
<b>PTFE-Faced Foamed Polyethylene</b>	PTFE-faced foamed polyethylene liner that offers the excellent chemical resistance of PTFE with the compressibility and sealing properties of polyethylene foam.	Typical applications: analytical lab samples, high purity chemicals, strong acids, solvents. Excellent for environmental samples, pharmaceuticals and diagnostic reagents.
<b>Poly-Seal®</b>	Manufactured from Polyethylene (LDPE). The unique cone design provides a wedge type seal that not only seals across the top but also across the inside diameter.	Unique problem solving type of liner. This liner is stress crack resistant and offers superior torque retention and excellent sealing characteristics. It is recommended that this liner be tested prior to use for leak seal.
<b>14B White Rubber</b>	The 14B white rubber lining material consists of homogeneous sulfur cured styrene-butadiene rubber. FDA Status complies with 21CFR 177.26, "Rubber articles intended for repeated use."	Excellent properties of resilience, resistant to moisture vapor. Chemical barrier. Autoclavable.
<b>Pulp/Aluminum Foil</b>	Aluminum foil bonded to 0.35" pulp board.	Good barrier properties, good resistance to hydrocarbons, oils, ketones and alcohols. Not good for acids or alkalis.

# Chemical Capability

Chemical	CONTAINERS						CAP LINERS						CAPS				SEPTA & STOPPERS					
	COC	Glass	HDPE	LDPE	PET	PP	Al Foil	LDPE	Poly-Vinyl	SBR	Silicone	Teflon	PBT	Phenolic	PP	Urea	Butyl Rubber	EPDM	Natural Rubber	Silicone	Teflon	Viton
acetic acid, glacial	A	A	A	B	A	A	A	B	B	C	B	A	C	A	A	D	B	B	B	B	A	A
acetone	A	A	D	D	C	B	A	D	D	D	B	A	D	A	B	A	B	A	B	B	A	D
acetonitrile	-	A	A	A	B	A	A	A	D	B	D	A	-	A	A	-	D	B	D	D	A	D
acrylonitrile	-	A	A	A	B	B	B	A	D	C	D	A	-	D	B	-	D	A	D	D	A	D
ammonium sulfide	-	A	A	A	-	A	D	A	A	B	A	A	-	A	A	C	A	A	A	A	A	C
benzene	D	A	D	D	C	D	B	D	D	D	D	A	A	A	D	A	D	D	D	D	A	A
bleach	-	A	A	B	C	B	D	B	A	D	B	A	C	D	B	-	A	A	D	B	A	A
boric acid	-	A	A	A	A	A	D	A	A	A	A	A	A	B	A	-	A	A	A	A	A	A
carbonic acid	-	A	A	A	-	A	B	A	A	B	A	A	-	-	A	-	A	A	A	A	A	A
chlorobenzene	D	A	C	D	B	C	A	D	D	D	D	A	B	A	C	B	D	D	D	D	A	A
chloroform	D	A	C	C	D	D	A	C	D	D	D	A	D	A	D	A	D	D	D	D	A	A
dichloromethane	D	A	C	D	D	C	D	D	D	D	D	A	D	C	C	B	D	D	D	D	A	B
diethylamine	-	A	C	D	-	B	A	D	D	B	B	A	-	-	B	-	B	B	B	B	A	C
dimethyl formamide	-	A	A	A	B	A	A	A	D	D	B	A	-	A	A	-	D	B	D	B	A	D
dimethyl sulfoxide (DMSO)	-	A	A	A	B	A	A	A	D	D	D	A	-	-	A	-	D	A	D	D	A	D
dioxane	-	A	B	B	A	D	D	B	D	D	D	A	B	A	D	-	B	B	D	D	A	D
ether	-	A	C	D	A	D	B	D	D	D	D	A	-	B	D	B	D	C	D	D	A	C
ethyl acetate	C	A	B	B	B	C	B	B	D	D	C	A	C	A	C	B	C	C	D	C	A	D
ethyl alcohol	A	A	A	A	A	A	B	A	B	A	B	A	A	B	A	A	A	A	A	B	A	A
ethylene glycol	A	A	A	A	A	A	B	A	A	A	A	A	A	B	A	B	A	A	A	A	A	A
formaldehyde	-	A	A	A	B	A	A	A	C	B	B	A	-	B	A	A	A	A	C	B	A	C
formic acid 50%	A	A	A	B	-	A	C	B	B	B	C	A	A	C	A	D	A	A	B	C	A	C
gasoline	D	A	C	D	B	C	A	D	D	D	D	A	A	B	C	A	D	D	D	D	A	A
glycerine	A	A	A	A	-	A	A	A	C	A	B	A	-	A	A	-	A	A	A	B	A	A
heptane	D	A	C	D	B	C	A	D	C	D	D	A	A	A	C	A	D	D	D	D	A	A
hexane	D	A	B	D	C	B	A	D	D	D	D	A	A	B	B	-	D	D	D	D	A	A
hydrochloric acid (HCL) 50%	A	A	A	A	B	A	D	A	B	D	D	A	C	A	A	D	A	D	D	D	A	A
hydrofluoric acid (HF) 50%	D	D	A	A	C	A	D	A	C	D	D	A	C	D	A	D	C	D	C	D	A	A
hydrogen peroxide 50%	-	B	A	A	B	A	A	A	C	C	B	A	B	D	A	D	B	B	B	B	A	A
iodine	B	A	C	D	A	C	A	D	C	B	A	A	-	-	C	-	B	B	D	A	A	A
isopropyl alcohol	A	A	A	A	A	A	A	A	B	B	A	A	A	A	A	-	A	A	A	A	A	A
methyl alcohol	A	A	A	A	B	A	A	A	C	A	A	A	B	B	A	A	A	A	A	A	A	D
methyl ethyl ketone (MEK)	-	A	D	D	B	B	A	D	D	D	D	A	C	A	B	-	A	B	D	D	A	D
methylene chloride	D	A	C	D	D	B	D	D	D	D	D	A	D	C	B	B	D	D	D	D	A	B
nitric acid 50%	B	A	C	B	C	C	D	B	B	D	D	A	C	B	C	D	C	D	C	D	A	B
pentane	D	A	C	C	-	D	A	C	D	D	D	A	-	-	D	-	D	D	D	D	A	A
perchloric acid 50%	-	B	B	B	B	B	D	B	D	D	D	B	-	-	B	-	B	B	D	D	B	A
phenol 50%	B	A	D	D	D	D	A	D	C	D	D	A	D	A	D	-	D	C	D	D	A	A
phosphoric acid 50%	A	A	A	A	B	A	B	A	B	D	D	A	B	B	A	D	B	B	D	D	A	A
picric acid	-	A	D	D	B	D	A	D	D	B	D	A	-	A	D	D	B	B	B	D	A	A
potassium hydroxide	A	D	A	A	D	A	D	A	A	B	C	A	C	D	A	-	A	A	B	C	A	B
sodium hydroxide 50%	B	D	A	B	D	A	D	B	C	A	B	A	C	D	A	C	A	A	A	B	A	B
sodium peroxide	-	A	B	B	-	B	C	B	A	B	D	A	-	B	B	D	A	A	B	D	A	A
sodium thiosulfate	-	A	A	A	B	A	A	A	A	B	A	A	-	A	A	B	A	A	B	A	A	A
sulfuric acid 50%	A	A	A	A	B	B	C	A	C	D	D	A	B	C	B	D	D	C	D	D	A	A
tetrahydrofuran (THF)	-	A	C	C	A	B	A	C	D	D	D	A	D	A	B	-	C	C	D	D	A	D
toluene	D	A	C	C	C	C	A	C	C	D	D	A	D	A	C	-	D	D	D	D	A	B
trifluoroacetic acid (TFA) 50%	-	A	A	A	B	A	-	A	A	-	D	-	-	-	A	-	-	A	-	D	-	-
vegetable oil	-	A	B	B	A	A	A	B	A	D	A	A	A	A	A	A	C	C	D	A	A	A
xylene	D	A	C	D	C	D	A	D	D	D	D	A	C	A	D	B	D	D	D	D	A	A

(Tests conducted at room temp)      A - Resistant      B - Limited Resistance      C - Poor Resistance      D - Not Resistant      - - Unknown

Although the information in this chart was acquired from reputable sources, it should only be used as a guide in selecting a container and closure system. Because so many factors can affect the chemical resistance of a material, in-house testing under actual conditions should be performed.

Wheaton Science Products accepts no responsibility for the accuracy of this data or for any consequences resulting from its use.



**WHEATON**

**Science Products**

a division of WHEATON Industries Inc.

1501 North 10th Street, Millville, NJ 08332-2038

1.800.225.1437 ■ 1.856.825.1100

[www.wheatonsci.com](http://www.wheatonsci.com)

**International:**

+1.856.825.1100 (T)

+1.856.825.1368 (F)

