

Corning® Storage Bottles Selection and Use Guide

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Corning® Storage Bottles



Corning offers PYREX storage bottles in a wide variety of sizes, shapes and styles to meet all of your storage needs.

Corning offers a wide variety of glass and plastic screw cap bottles designed to meet all of your storage needs. This guide will help you select the best bottle to meet these needs. The following table shows the major differences between Corning's glass and plastic storage bottles.

Comparison of Corning Glass and Plastic Storage Bottles

PYREX® and PYREXPLUS® Glass Bottles	Corning® and Costar® Plastic Bottles
Reusable: easy to clean and sterilize; very durable for long life	Disposable: Sterile and ready to use; very convenient, no washing or clean up required
Excellent chemical resistance: good for acids, alkalis and solvents but also media and aqueous solutions	Lower chemical resistance: good for media and aqueous solutions
Excellent temperature resistance: bottles can be repeatedly sterilized	Lower temperature resistance: only polycarbonate bottles can be autoclaved
Nine sizes: 25 mL to 10L	Five sizes: 125 mL to 1L

Composition of Code 7740 Glass

Chemicals	% (approx.)
SiO ₂	81%
B ₂ O ₃	13%
Na ₂ O	3%
Al ₂ O ₃	2%
K ₂ O	1%

Corning uses Code 7740 Type I, Class A borosilicate glass for all of its glass storage bottles. This glass conforms to federal specification DD-G-54 lb and ASTM E-438 (except for K₂O content). This glass also meets the U.S. Pharmacopoeia specs for Type I Borosilicate Glass.

Glass Screw Cap Storage Bottles

PYREX reusable storage bottles are designed for heavy duty storage of reagents, sterile tissue culture media and sera, biological fluids and other aqueous and nonaqueous solutions. All PYREX borosilicate glass bottles offer:

- ▶ Code 7740 Type 1, Class A borosilicate glass for superior chemical and thermal resistance, able to withstand repeated sterilization cycles or freezing down to -70°C.
- ▶ Linerless, one-piece autoclavable polypropylene plug seal caps and drip-free pouring rings
- ▶ Permanent enamel marking spot and graduations
- ▶ A wide range of optional caps for venting and aseptic liquid collection or transfer – see Caps and Accessories on page 5.
- ▶ Choice of traditional round storage bottles or space saving square storage bottles

Comparison of PYREX and PYREXPLUS Glass Storage Bottles

	PYREX Round Clear Glass and Low Actinic Storage Bottles	PYREXPLUS Round Glass Storage Bottles	PYREX Square Glass Storage Bottles	PYREX Wide Mouth Glass Storage Bottles
Bottle Material	Code 7740 borosilicate glass	Code 7740 borosilicate glass with PVC coating	Code 7740 borosilicate glass	Code 7740 borosilicate glass
Cap Color	Orange	Green	Orange	Orange
Cap Material (Maximum Temp.)	Polypropylene (140°)	Polypropylene (140°)	Polypropylene (140°)	Polypropylene (140°)
Autoclavable (121°C, 15 psi)	Yes	Yes	Yes	Yes
Maximum Recommended Working Temp. (°C), Bottle only	230 [†]	80°	230 [†]	230 [†]
Minimum Recommended Working Temp. (°C)*	-70 [*]	10 [*]	-70 [*]	-70 [*]
Use with Corning Vacuum Filters	Recommended	Recommended	Not Recommended	NA
Available sizes:	25 mL, 50 mL, 100 mL, 250 mL, 500 mL, 1L, 2L, 5L & 10L	100 mL, 250 mL, 500 mL, 1L, 2L, 5L & 10L	100 mL, 250 mL, 500 mL & 1L,	500 mL, 1L & 2L

* Bottle performance in freezers depends on both the temperature and contents in the bottle. It is strongly recommended that a trial run be performed under actual conditions to test the suitability of the bottles for frozen storage.

† Extreme service at 490°C.



Corning's round borosilicate glass storage bottles are available clear for general storage (left), with low actinic red stain for light sensitive reagents (middle), or with a tough PVC coating (PYREXPLUS®, right) for extra layer of safety against breakage and spills.

PYREX® Round Glass Storage Bottles

- Available with either clear glass for routine storage applications or low actinic red glass for storing light sensitive materials
- Nine sizes to choose from: 25 mL, 50 mL, 100 mL, 250 mL, 500 mL, 1L, 2L, 5L and 10L
- 100 mL through 2L sizes can be used with Corning Bottle Top Vacuum Filters. **Caution:** Bottles larger than 2L should NOT be used with bottle top filter units, or in other applications involving vacuum pressure, as breakage may occur.

PYREXPLUS Round Glass Storage Bottles

- Bottles have a protective PVC coating to help prevent glass from shattering and to reduce spills.
- Seven sizes to choose from: 100 mL, 250 mL, 500 mL, 1L, 2L, 5L and 10L.
- Autoclavable at 121°C and resistant to thermal shock. **Caution:** Do not place these bottles over direct heat or flame or heat above 121°C moist heat or 110°C dry heat.
- Come with autoclavable GL45 green polypropylene plug seal caps with drip-free pouring rings
- Teal enameled graduations and marking spot.
- Ideal for use with Corning Bottle Top Vacuum Filters or other mild vacuum applications

PYREX Square Glass Storage Bottles

- Easier to handle and require less space (13 to 20%) on the shelf or in the autoclave
- Four sizes to choose from: 100 mL, 250 mL, 500 mL and 1L.
- **Caution:** Square bottles should NOT be used with bottle top filter units, or in other applications involving vacuum pressure, as breakage may occur.



Square PYREX storage bottles save on space in refrigerators and autoclaves.

Corning® Storage Bottles



PYREX® wide mouth storage bottles have extra wide neck opening for use with funnels and for easier access and pouring.

PYREX Wide Mouth Glass Storage Bottles

- ▶ Three sizes to choose from: 500 mL, 1L and 2L
- ▶ Neck opening is 5 times larger than on GL45 threaded bottles – much easier to add or remove powders and easier to clean.

Plastic Screw Cap Storage Bottles

Corning's disposable polystyrene and polycarbonate storage bottles are designed for researchers who want to store sterile tissue culture media and sera, buffers, biological fluids and other aqueous solutions in convenient, disposable bottles. All plastic storage bottles offer:

- ▶ Convenience – sterile, ready to use with no clean up after
- ▶ 45 mm diameter caps provide an air tight seal and help minimize contamination and leaks
- ▶ Choice of three styles:
 - Corning square polycarbonate bottles are break resistant and autoclavable or microwavable
 - Corning easy grip round polystyrene bottles have a low profile for easier gripping and greater stability
 - Costar® traditional round bottles



Corning offers round polystyrene storage bottles in two designs (above left and middle) as well as new square polycarbonate storage bottles (above right).

Comparison of Polystyrene and Polycarbonate Storage Bottles

	Costar® Round Polystyrene Storage Bottles	Corning® Easy Grip Round Polystyrene Storage Bottles	Corning Square Polycarbonate Storage Bottles
Bottle Material	Polystyrene	Polystyrene	Polycarbonate
Cap Color	Red	Orange	Orange
Cap Material (Maximum Temperature, C)	High Density Polyethylene (121°)	High Density Polyethylene (121°)	Polypropylene (140°)
Autoclavable† (121°C, 15 psi, 20 minutes)	No	No	Yes, once†
Maximum Recommended Working Temperature (C)	70°	70°	130°
Minimum Recommended Working Temperature (C)*	-20°*	-20°*	-80°*
Use with Corning Vacuum Filters	Recommended	Recommended	Not Recommended
Available sizes:	125 mL, 250 mL, 500 mL and 1L	150 mL, 250 mL, 500 mL and 1L	150 mL, 250 mL, 500 mL and 1L

† Autoclaving will reduce mechanical strength.

* Bottle performance in freezers depends on both the temperature and contents in the bottle. It is strongly recommended that a trial run be performed under actual conditions to test the suitability of the bottles for frozen storage.

Caps and Accessories



Corning offers a variety of cap colors and styles for PYREX storage bottles.



Septum caps provide syringe access to solutions without sample contamination.



Bottles with these autoclavable dispensing caps are ideal for aseptic liquid transfer and collection.

All PYREX® storage bottles come with polypropylene caps that are fully autoclavable at temperatures up to 140°C. These one piece caps seal using an integral plug that is designed to mold against the inside rims of glass bottles. While these one piece caps also fit the plastic storage bottles, they will not provide a gas tight seal.

Optional plug seal gray caps have a single vent in their centers consisting of a 0.22 µm PTFE membrane that is heat sealed on the inside to the cap. This membrane permits automatic gas exchange, allowing pressure equalization during autoclaving to insure sterility of solutions in the bottle. The hydrophobic PTFE membrane material will prevent liquids from wetting through.

Optional red caps with polybutylterephthalate (PBT) coated rubber liners are available for applications requiring temperatures as high as 180°C. These two piece caps use a traditional gasket design to seal against the rim. The optional red PBT high temperature pouring rings should always be used in conjunction with these caps for applications above 140° C.

Corning® Storage Bottles

Corning offers reusable PBT septum caps for storage bottles (not available for wide mouth bottles) with a choice of silicone septa or PTFE faced silicone septa. The replaceable septa are ordered separately.

Dispensing caps (Corning Cat. No. 401654) with two 15.4 cm stainless steel tube ports can easily convert storage bottles with GL45 threads for use in automated cell culture or assay systems requiring aseptic liquid dispensing or collection. These reusable caps can be used on all Corning glass and plastic bottles with 45 mm diameter necks.

Care and Use

Cleaning PYREX® Storage Bottles

Wash bottles as quickly as possible after use. Bottles contaminated with blood clots, culture media, etc., should be sterilized before cleaning. If a thorough cleaning is not immediately possible, then soak bottles in water. If bottles are not cleaned immediately, it may become difficult or impossible to remove the material later. Place the glassware in a large container filled with water for soaking. The bottles should then be rinsed in tap water, scrubbed with detergent and rinsed again.

Most new glassware is slightly alkaline in reaction. For critical cell culture work, new bottles should be soaked several hours in acid water (a 1% solution of hydrochloric or nitric acid) before washing.

Rinsing

After cleaning, rinse glass bottles with running tap water. Allow the water to run into and over them for a short time, then partly fill each piece with water, thoroughly shake and empty at least six times. The final rinse should be done using deionized, distilled or other source of good quality water.

PYREXPLUS® Labware Use and Care

- ▶ Do not place PYREXPLUS labware over direct heat or open flame.
- ▶ The recommended temperature use range for PYREXPLUS labware is 10° C to 80° C. Do not continuously expose PYREXPLUS labware to heat above 80° C.
- ▶ Do not expose to dry heat in a dishwasher above 110°C (230°F). Drying time should not exceed 15 minutes at 110°C (230°F).
- ▶ Do not steam autoclave above 121°C (250°F). Sterilizing time should not exceed 15 minutes.
- ▶ Do not refrigerate below -20°C (-4°F).
- ▶ Do not remove the protective coating. Do not use a vessel on which the coating is hardened, darkened or otherwise damaged.
- ▶ Do not allow prolonged or repeated exposure of the coating to strong acids or solvents.
- ▶ Do not use a vessel once the glass is broken. Immediately transfer the contents of a broken vessel to an approved container and properly dispose of the broken vessel.
- ▶ Do not incinerate discarded vessels. Place in proper disposal containers.
- ▶ Proper care and handling of PYREX and PYREXPLUS labware will greatly increase its life and increase the safety of your workplace.

Visit www.corning.com/lifesciences/technical_info for additional information on the use and care of your PYREX and PYREXPLUS glassware.

Glassware Safety Precautions

These products are intended for use by persons knowledgeable in safe laboratory practices. Failure can result from surface damage, improper pressure or temperature, or use with incompatible chemicals.

WARNING: To avoid breakage and possible injury, Corning recommends the following:

- ▶ Do not heat glassware that is scratched, etched, cracked or nicked, it will be prone to breakage.
- ▶ Do not use any implement inside a glass vessel that can scratch or chip the glass.
- ▶ Do not use PYREX® or PYREXPLUS® bottles over direct heat such as a flame or on a hot plate.
- ▶ Do not put hot bottles onto cold or wet surfaces, or cold bottles onto hot surfaces. The bottles may break due to the thermal shock caused by the temperature change.
- ▶ Extra care to prevent thermal shock must be used when removing bottles from ultra low temperature freezers (-70° to -135°C). Immediately rinse the entire bottle under cold running water until thawing begins. Do not place bottles directly from the freezer into warm water baths.
- ▶ Because of variations in conditions, Corning cannot guarantee glassware against breakage and personal injury in vacuum or pressure applications.
- ▶ Do not use reagent bottles larger than 1L or laboratory bottles larger than 2L with bottle top filter units, or in vacuum applications. Do not use any bottle in pressure applications.
- ▶ Adequate safety precautions should always be taken when handling or using glassware to protect against breakage and personal injury.
- ▶ Bottles should NOT have caps tightened immediately after autoclaving because the vacuum resulting from cooling can cause breakage. This statement does not apply to the vented cap (1395-45LTMC).
- ▶ The vented cap (Cat. No. 1395-45LTMC) is NOT recommended for use on the 5L and 10L bottles.
- ▶ 1396 and 1397 SERIES BOTTLES ARE NOT RECOMMENDED FOR VACUUM USE.

This physical properties chart is intended to be used as a general guide only. The mechanical strength, color, appearance and dimensional stability of plastic labware are affected to varying degrees by the chemicals they contact. Specific operating conditions, especially temperature, will also affect the chemical resistance.



PYREXPLUS media bottles (Cat. No. 61626 series) have a protective plastic coating for extra protection in vacuum applications and can be autoclaved.

PYREX Media Bottles and Vacuum Safety

Round PYREX media storage bottles (Cat. No. 1395 series), 2L and smaller, are ideal for room temperature vacuum filtration with Corning® Bottle Top Filters or aspiration applications. For additional protection during vacuum application PYREXPLUS media bottles with a protective PVC coating (Cat. No. 61626 series) are highly recommended. Square PYREX media storage bottles (Cat. No. 1396 series) should not be used with bottle top filter units, or in other applications involving vacuum, as breakage may occur because of their shape.

Because of variations in conditions or damage from usage, such as scratches or uneven heating, Corning cannot guarantee any glassware against breakage under vacuum or pressure. All glass containers used in vacuum work must be securely and adequately taped or shielded to restrain flying glass in the event of an implosion. Adequate precautions should be taken to protect personnel doing such work including using gloves and safety glasses, goggles, or a face shield. For additional safety information visit http://www.corning.com/lifesciences/technical_info.

Corning® Storage Bottles

Physical properties of Corning® Glass and Plastic Bottles

	CHEMICAL RESISTANCE			Sterilization	Thermal Durability
	Recommended	Not Recommended			
PYREX® Glass Bottles	Almost all chemicals	Hydrofluoric acid, hot phosphoric acid, and strong, hot alkali		Autoclave or dry heat	490°C*
PYREXPLUS® Glass Bottles, PVC coated	Weak acids, strong alkali, oils, alcohols	Hydrofluoric acid, hot phosphoric acid, strong, hot alkali, aldehydes, ketones, strong acids, and chlorinated solvents		Autoclave†	110°C
Polycarbonate Plastic Bottles	Weak acids, weak alkali, alcohols	Strong acids, strong alkali, ketones, aliphatic, aromatic and chlorinated hydrocarbons		Autoclave once	135°C
Polystyrene Plastic Bottles	Weak acids, strong alkali, alcohols	Strong acids, ketones, aliphatic, aromatic and chlorinated hydrocarbons		Do not autoclave	80°C
Polypropylene Caps & Rings	Acids, alkali, solvents, oils alcohols	Aromatic and chlorinated hydrocarbons, oxidizing acids		Autoclave	140°C
Polyethylene Caps	Acids, alkali, aldehydes, solvents, alcohol, oils	Aliphatic, aromatic, and chlorinated hydrocarbons, oxidizing acids		Do not autoclave	121°C
PBT Caps and ETFE Rings	Weak acids, weak alkali, alcohols, esters, ether, benzene, mineral oil	Strong acids, strong alkali, and ketones		Autoclave or dry heat	180°C

†Sterilization time should not exceed 15 minutes at 121°C (250°F). Drying time should not exceed 15 minutes at 110°C (230°F).

*Thermal up shock or down shock may cause breakage.

Ordering Information

Glass Bottles

1395 Laboratory Storage Bottle



Cat. No.	Capacity (mL)	Thread Size	Approx. Diameter x Height (mm)	Grad. Range (mL)	Grad. Interval (mL)	Qty/Cs
1395-25	25	GL25	36.5 x 70	10-25	5	10
1395-50	50	GL32	46 x 88	20-50	10	10
1395-100	100	GL45	56 x 100	40-80	20	10
1395-250	250	GL45	70 x 138	50-200	50	10
1395-500	500	GL45	86 x 176	100-400	100	10
1395-1L	1000	GL45	101 x 225	100-900	100	10
1395-2L	2000	GL45	136 x 262	400-1800	200	10
1395-5L	5000	GL45	186 x 335	500-4500	500	1
1395-10L	10000	GL45	234 x 410	2000-9000	1000	1

1396 Square Laboratory Storage Bottle



Cat. No.	Capacity (mL)	Thread Size	Approx. Diameter x Height (mm)	Grad. Range (mL)	Grad. Interval (mL)	Qty/Cs ¹³⁹⁶⁻
100	100	GL32	50 x 105	40-80	20	10
1396-250	250	GL45	64 x 138	50-200	50	10
1396-500	500	GL45	78 x 176	100-400	100	10
1396-1L	1000	GL45	94 x 217	100-900	100	10

Ordering Information (continued)



1397 GLS 80 Wide Mouth Bottle

Cat. No.	Capacity (mL)	Thread Size	Approx. Diameter x Height (mm)	Grad. Range (mL)	Grad. Interval (mL)	Qty/ Cs
1397-500	500	GLS80	101 x 148	100-500	100	10
1397-1L	1000	GLS80	101 x 218	100-1000	100	10
1397-2L	2000	GLS80	136 x 248	400-2000	200	10

51395 Low Actinic Bottle



Cat. No.	Capacity (mL)	Thread Size	Approx. Diameter x Height (mm)	Grad. Range (mL)	Grad. Interval (mL)	Qty/ Cs
51395-25	25	GL25	36.5 x 70	10-25	5	4
51395-50	50	GL32	46 x 88	20-50	10	4
51395-100	100	GL45	56 x 100	40-80	20	4
51395-250	250	GL45	70 x 138	50-200	50	4
51395-500	500	GL45	86 x 176	100-400	100	4
51395-1L	1000	GL45	101 x 225	100-900	100	4
51395-2L	2000	GL45	136 x 262	400-1800	200	4
51395-5L	5000	GL45	186 x 335	500-4500	500	1
51395-10L	10,000	GL45	234 x 410	2000-9000	1000	1

61626 PYREXPLUS® Bottle



Cat. No.	Capacity (mL)	Thread Size	Approx. Diameter x Height (mm)	Grad. Range (mL)	Grad. Interval (mL)	Qty/ Cs
61626-100	100	GL45	56 x 100	40-80	20	4
61626-250	250	GL45	70 x 138	50-200	50	4
61626-500	500	GL45	86 x 176	100-400	100	4
61626-1L	1000	GL45	101 x 225	100-900	100	4
61626-2L	2000	GL45	136 x 262	400-1800	200	4

Plastic Storage Bottles



Cat. No.	Capacity (mL)	Shape	Bottle Material	Neck Dia. (mm)	Qty/ Bag	Qty/ Cs
431430	150	Square	Polycarbonate	45	1	24
431431	250	Square	Polycarbonate	45	1	24
431432	500	Square	Polycarbonate	45	1	24
431433	1000	Square	Polycarbonate	45	1	24
431175	150	Easy Grip Round	Polystyrene	45	2	24
430281	250	Easy Grip Round	Polystyrene	45	2	24
430282	500	Easy Grip Round	Polystyrene	45	2	24
430518	1000	Easy Grip Round	Polystyrene	45	2	24
8388	125	Round	Polystyrene	45	1	24
8390	250	Round	Polystyrene	45	1	12
8393	500	Round	Polystyrene	45	1	12
8396	1000	Round	Polystyrene	45	1	12

Corning® Storage Bottles

Ordering Information (continued)

Caps and Accessories



Cat. No	Description	Color	Material	Thread Fits	Seal	Qty/Cs
1395-25HTSC	Open Top Cap	Red	PBT	GL25	Requires Septa	10
1395-25SS	Silicone Septa	White	Silicone	GL25	Requires Cap	10
1395-25TS	PTFE Faced Silicone Septa	White	Silicone/PTFE	GL25	Requires Cap	10
1395-32LTC	Cap	Orange	PP	GL32	Plug Seal	20
1395-32HTSC	Open Top Cap	Red	PBT	GL32	Requires Septa	10
1395-32SS	Silicone Septa	White	Silicone	GL32	Requires Cap	10
1395-32TS	PTFE Faced Silicone Septa	White	Silicone/PTFE	GL32	Requires Cap	10
1395-32LTR	Pouring Ring	Clear	PP	GL32	NA	50
1395-45LTC	Cap	Orange	PP	GL45	Plug Seal	20
1395-45LTC1	Cap	Purple	PP	GL45	Plug Seal	20
1395-45LTC2	Cap	Light Gray	PP	GL45	Plug Seal	20
1395-45LTC3	Cap	Green	PP	GL45	Plug Seal	20
1395-45LTMC	Vented Cap with 0.22µm Pore Hydrophobic PTFE Membrane	Gray	PP	GL45	Plug Seal	10
1395-45HTSC*	High Temperature Cap	Red	PBT	GL45	PTFE/Silicone Liner	10
401654*	Cap with 2-15.2 cm SS Tube Ports	Orange	PP	GL45	Rim Seal	1
1395-45HTSC*	Open Top Cap	Red	PBT	GL45	Requires Septa	10
1395-45SS*	Silicone Septa	White	Silicone	GL45	Requires Cap	10
1395-45TS*	PTFE Faced Silicone Septa	White	Silicone/PTFE	GL45	Requires Cap	10
1395-45LTR	Pouring Ring	Clear	PP	GL45	NA	50
1395-45HTR	High Temp. Pouring Ring	Red	ETFE	GL45	NA	50
1397-80LTC	Cap	Orange	PP	GLS80	Plug Seal	10

PP = Polypropylene, PBT = Polybutylterephthalate, PTFE = Polytetrafluoroethylene, ETFE = Ethylenetetrafluoroethylene, SS = Stainless Steel

*Can be used with Corning and Costar plastic storage bottles with 45mm necks.

Bottle Top Vacuum Filters

- Individually packaged, sterile and certified nonpyrogenic
- Adaptors are color coded by membrane type
- Fit most glass and plastic media storage bottles with GL45 caps
- Do not use on square glass bottles or glass bottles larger than 2L



Cat. No.	Membrane	Volume (mL)	Neck Size (mm)	Pore Size (µm)	Color-Coded Adapter	Qty/Cs
150 mL Capacity, 50 mm Diameter Membrane						
430626	CA	150	45	0.22	Orange	48
430627	CA	150	45	0.45	Orange	48
431161	PES	150	45	0.22	Yellow	48
500 mL Capacity, 70 mm Diameter Membrane						
430049	NY	500	45	0.2	Red	12
430513	CA	500	45	0.22	Orange	12
430514	CA	500	45	0.45	Orange	12
431118	PES	500	45	0.22	Yellow	12
1,000 mL Capacity, 90 mm Diameter Membrane						
430015	CA	1,000	45	0.22	Orange	12
431174	PES	1,000	45	0.22	Yellow	12

PES = Polyethersulfone, CA = Cellulose Acetate, CN = Cellulose Nitrate, NY = Nylon.

For additional product, technical, or distributor information, please visit www.corning.com/lifesciences or call 800.492.1110. Customers outside the United States, please call +1.978.442.2200 or contact your local Corning sales office listed below.

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