Vials, Bottles, Caps and Septa for Sample Analysis, Storage and Retrieval

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KIMBLE CHASE

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Mod-Packs

Close up view of a corrugated tray with partitions.

Scintillation vials are packed in cellular trays with partitions and alpha-numeric coordinates. See pages 14-17.

Kimble Chase Packaging Configurations

- **Mod-Packs of Vials**

  Kimble Chase Mod-Packs are modular, shrink-wrapped blocks of vials that are placed in corrugated cartons. This packaging method is used to minimize particulate contamination.

- **Corrugated Trays with Partitions**
  Cellular trays with dividers keep vials organized while also providing easy access.

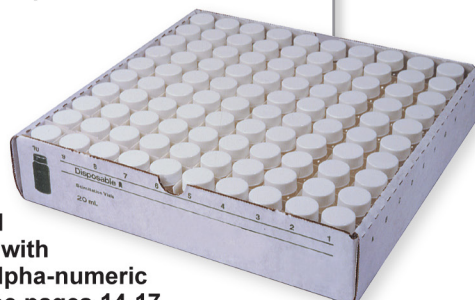- **Cellular Trays with Partitions and Alpha-Numeric Coordinates**
  Most **Kimble Chase scintillation vials** come in corrugated trays having alpha-numeric coordinates for fast and easy identification. Each tray contains 100 scintillation vials and is shrink-wrapped to preserve cleanliness. Our **KIM-BULK** polyethylene vials come in bags of 1000 each and are our most economical option.

KIMBLE CHASE

2mL and 4mL Autosampler Vials without Closures

- Choice of clear Choice of clear 33 expansion borosilicate glass or 51 expansion amber borosilicate glass
- Available with or without marking spots
- Made in the USA

Made of the highest quality materials, Kimble Chase vials meet or exceed industry specifications and tolerances. These products are available in a variety of standard sizes and finishes. Vials are made from clear, Type 1 borosilicate, 33 expansion borosilicate glass or 51 expansion amber borosilicate glass for light sensitive applications. Vials are packed 100 per tray. Vials with large opening and/or marking spots are also available. Closures are not included.

Clear Vials

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	Finish	Pack Qty.	Case Qty.
331232C	2	1/2	12 x 32	crimp	100	2000
331232CW	2	1/2	12 x 32	crimp with marking spot, graduated	100	2000
331232CL	2	1/2	12 x 32	crimp large opening	100	2000
331232CLW	2	1/2	12 x 32	crimp large opening w/ marking spot	100	2000
331232S	2	1/2	12 x 32	screw thread, 8-425	100	2000
331232SN	2	1/2	12 x 32	screw thread, 9-425	100	2000
331232SW	2	1/2	12 x 32	screw thread, 9-425 w/ marking spot, grad.	100	2000
331545S	4	1	15 x 45	screw thread, 13-425	100	2000
331545SW	4	1	15 x 45	screw thread, 13-425 w/ marking spot	100	2000

Amber Vials

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	Finish	Pack Qty.	Case Qty.
511232CA	2	1/2	12 x 32	crimp	100	2000
511232CAW	2	1/2	12 x 32	crimp w/ marking spot	100	2000
511232CLA	2	1/2	12 x 32	crimp large opening	100	2000
511232CLAW	2	1/2	12 x 32	crimp large opening w/ marking spot	100	2000
511232SA	2	1/2	12 x 32	screw thread, 8-425	100	2000
511232DPA	2	1/2	12 x 32	screw thread, 9-425	100	2000
511232SAW	2	1/2	12 x 32	screw thread, 9-425 w/ marking spot, grad.	100	2000
511545SA	4	1	15 x 45	screw thread, 13-425	100	2000
511545SAW	4	1	15 x 45	screw thread, 13-425 w/ marking spot	100	2000

20mm Headspace Vials

- Clear 33 expansion borosilicate glass with 20mm crimp seal
- Manufactured with uniform wall thickness for even heat distribution
- Designed to meet or exceed OEM specifications
- Made in the USA

The beveled edge finish features a sturdy rim that presses into the septum for a more effective seal. Round bottom vials distribute the internal pressure created at high temperatures across the glass surface and are more easily handled by robotic arms that lift the vial from the tray.

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	Style	Finish	Pack Qty.	Case Qty.
332375	20	1/2	23 x 75	flat top	20mm A/S	100	1000
332346B	10	2 3/4	23 x 46	modified top	20mm A/S	100	1000
332375B	20	1/2	23 x 75	modified top	20mm A/S	100	1000
332375BMB	10	2 3/4	23 x 46	modified top and bottom	20mm A/S	100	1000

Polypropylene Rack for 12 mm OD Vials

Disposable polypropylene vial rack is lettered and numbered for indexing individual vials. Corners interlock for convenient stacking.

Catalog Number	Hole Diameter x Depth (mm)	Case Qty.
749210-0012	12 x 15	10

Closures are listed starting on page 21.

12 x 32 mm Vials

15 x 45 mm Vials

Flat Top

Modified Top

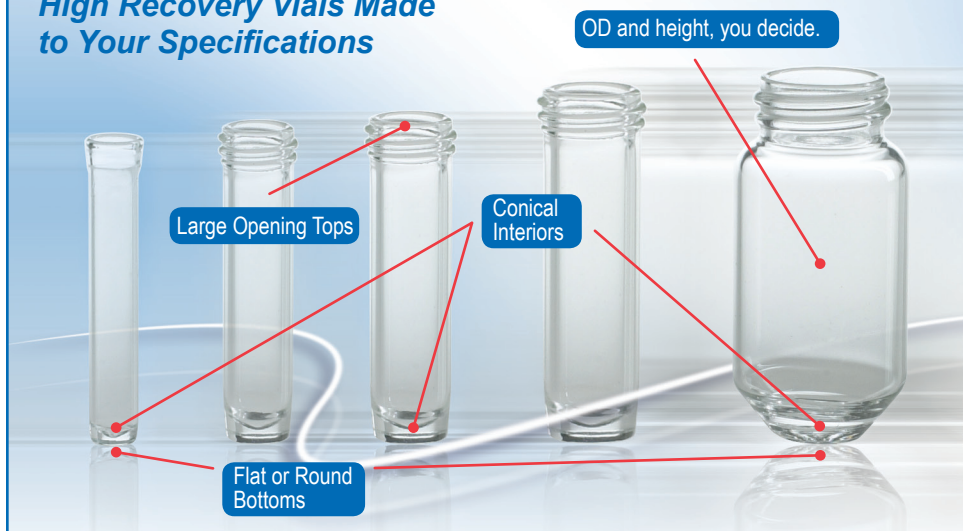Modified Top and Bottom

Finish Designed to Fit Most Autosamplers

749210

We can manufacture any vial you can dream up.

High Recovery Vials Made to Your Specifications

OD and height, you decide.

Large Opening Tops

Conical Interiors

Flat or Round Bottoms

• Accuracy • Reliability • Quality • Affordability

Flat Exterior Bottoms
- Ideal for bar coding
- Sized to fit any tray design
- Inherently stable

Conical Interior Bottoms
- Maximize your sample recovery
- Minimizes the use of costly samples
- Designed based on your needle type

Finishes
- Aluminum seal
- Screw thread
- Plug style

Available Value Added Services
- Permanent sample ID (PSID)
- Fused on or laser etched labels
- All symbologies - 1D, 2D
- Universal readability
- Pre-labeled and pre-tared
- Pre-weighed with documentation

Laser Etch Permanent Sample ID (PSID)
No paper, No adhesives, No lost labels

Permanent Sample ID (PSID)
- Laser etched
- PSID is chemically similar to labware
- Patent pending

Durable
- Resistant to organic solvents - acids / bases
- Scratch resistant
- No weight changes due to absorbancy and drying
- Designed for use in low and high temps
- Ideal for years-long storage at low temp

Automation Friendly
- No loose edges to stick or bind

As a Service to You
- Pre-labeled - glass or plastic
- Label to your design
- Pre-tared to your specifications
- Prompt delivery

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Kimble Chase ACCUFORM® SSR™ Vials
(Sample Storage and Retrieval)

- Smooth, conical interior surfaces facilitate complete sample recovery
- Less than 10 µL of dead space
- Automation friendly and ideal for high-throughput screening
- Smooth exterior bottoms are perfect for 2D barcoding
- Large opening tops for easy access of contents
- Borosilicate glass for chemical resistance

Kimble Chase ACCUFORM® SSR™ Vials are designed for scientists like you who require reliable storage, retrieval, analysis and delivery of valuable liquid or powder samples. Engineered for consistently high performance in laboratory automation equipment, these vials will help you minimize expensive down time.

New!

Standard Vial   Shoulderless Vial

ACCUFORM® SSR Vials
Conical Bottoms for Maximum Sample Recovery

Standard Vials

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Pack Qty.	Case Qty.
60680-12	2	1/2	13 x 39	13-425	250	1000
60680-1	4	1	15 x 45	13-425	250	1000
60680-2	8	2	18 x 60	15-425	250	1000
60680-4	16	4	21 x 70	18-400	250	1000

Shoulderless, Straight-Sided Vials

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Pack Qty.	Case Qty.
60690-12	2	1/2	13 x 39	15-425	250	1000
60690-1	4	1	15 x 45	18-400	250	1000
60690-2	8	2	18 x 60	20-400	250	1000
60690-4	16	4	21 x 70	24-400	250	1000

Black Phenolic Caps with PTFE-Faced White Rubber Liners

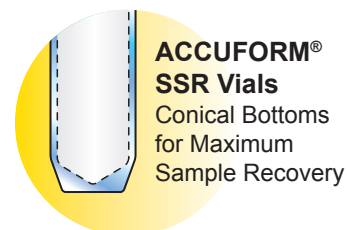| Catalog Number	GPI Thread Finish	Case Qty.
73802-13425	13-425	144
73802-15425	15-425	144
73802-18400	18-400	144
73802-20400	20-400	144
73802-24400	24-400	144

Value Added Services Also Available - Just Ask!

- Custom vials to exact specifications in clear Choice of clear 33 expansion borosilicate glass or 51 expansion amber borosilicate glass
- Positive ID with ceramic and adhesive label barcodes with a range of symbologies including codes 39, 128, I 2 of 5 and 2D data matrix
- Barcoding and tare weighing
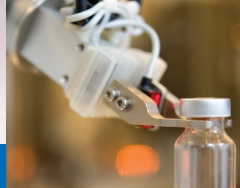- Pre-weighed vials with supporting documentation
- Caps and liners

Vial Packaging

- Barcode and Tare Weighing Compatible
- No Glass-to-Glass Contact
- Polycoated Dividers Minimize Particulate Contamination and Enable Pre-Tare Weighing

60705

60700

60707

60702

ACCUFORM® Screw Thread Micro-Vials with Attached Closures

• Choice of clear 33 expansion borosilicate glass or 51 expansion amber borosilicate glass
• Tapered bases allow for maximum sample recovery
• Internally contoured for optimal performance with limited samples
• Graduated to ensure more accurate measurements and dispensing
• Choice of pre-attached open or pre-attached solid top closures

Vials with Open Top Closures and PTFE-Faced Silicone Septa

Catalog Number	Glass Type	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60700-1	clear	1	1/4	14 x 49	13-425	12
60700-2	clear	2	1/2	21 x 40	20-400	12
60700-3	clear	3	4/5	21 x 51	20-400	12
60700-5	clear	5	1.35	21 x 62	20-400	12
60700-10	clear	10	2 3/4	25 x 73	24-400	12
60705-1	amber	1	1/4	14 x 49	13-425	12
60705-2	amber	2	1/2	21 x 40	20-400	12
60705-3	amber	3	0.80	21 x 51	20-400	12
60705-5	amber	5	1.35	21 x 62	20-400	12

Vials with Solid Top Closures and PTFE-Faced White Rubber Liners

Catalog Number	Glass Type	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60702-1	clear	1	1/4	14 x 49	13-425	12
60702-2	clear	2	1/2	21 x 40	20-400	12
60702-3	clear	3	0.80	21 x 51	20-400	12
60702-5	clear	5	1.35	21 x 62	20-400	12
60702-10	clear	10	2 3/4	25 x 73	24-400	12
60707-1	amber	1	1/4	14 x 49	13-425	12
60707-2	amber	2	1/2	21 x 40	20-400	12
60707-3	amber	3	0.80	21 x 51	20-400	12
60707-5	amber	5	1.35	21 x 62	20-400	12

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ACCUFORM® Screw Thread Micro-Vial with Attached Closures

- Choice of clear 33 expansion borosilicate glass or 51 expansion amber borosilicate glass
- Tapered bases allow for maximum sample recovery
- Internally contoured for optimal performance with limited samples
- Ungraduated
- Supplied with pre-attached open top closure with PTFE-faced silicone liner

Vials with Open Top Closures and PTFE-Faced Silicone Liners

Catalog Number	Glass Type	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60710-110	clear	0.1	0.03	12 x 32	8-425	12
60710-310	clear	0.3	0.08	14 x 36	13-425	12
60710-1	clear	1	1/4	14 x 49	13-425	12
60710-2	clear	2	1/2	21 x 40	20-400	12
60710-3	clear	3	1.35	21 x 51	20-400	12
60710-5	clear	5	1.35	21 x 62	20-400	12
60710-10	clear	10	2 3/4	25 x 73	24-400	12
60715-110	amber	0.1	0.03	12 x 32	8-425	12
60715-310	amber	0.3	0.08	14 x 36	13-425	12
60715-1	amber	1	1/4	14 x 49	13-425	12
60715-2	amber	2	1/2	21 x 40	20-400	12
60715-3	amber	3	0.80	21 x 51	20-400	12
60715-5	amber	5	1.35	21 x 62	20-400	12

60710

60715

ACCUFORM® Aluminum Seal Micro-Vials without Closures

- Manufactured from clear 33 expansion borosilicate glass
- Graduated
- Closure not included

Catalog Number	Glass Type	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	A/S Finish (mm)	Case Qty.
60720-1	clear	1	1/4	14 x 49	13	12
60720-2	clear	2	1/2	21 x 40	20	12
60720-3	clear	3	0.80	21 x 51	20	12
60720-5	clear	5	1.35	21 x 62	20	12

Closures are listed starting on page 21.

60720

ACCUFORM® Aluminum Seal Micro-Vials without Closures

- Manufactured from clear 33 expansion borosilicate glass
- Ungraduated
- Closure not included

Catalog Number	Glass Type	Cap. (mL)	O.D. x Ht. (mm)	A/S Finish (mm)	Case Qty.
60730-310	clear	0.3	14 x 36	13	12

60730

4mL Dilution Vials with Attached Closures

New!

- Made from 33 expansion, Type I Class A glass
- Attached, closed top, black phenolic screw caps with white rubber liners
- Marked with blue lines at 3mL
- Packed in corrugated trays with partitions

Fully autoclavable. Ideal for use in research studies. Can be stored at low temperatures.

Catalog Number	Cap. (mL)	O.D. x Ht. (mm)	Screw-Thread Finish	Case Qty.
60811D-312	4	15x45	13-425	144

EPA Screw Thread Vials

Clear and amber screw thread EPA vials for the collection and storage of water samples comply with the guidelines for establishing test procedures for the analysis of pollutants (Ref. EPA Methods 601, 602, 603 and 604).

Clear EPA vials are fabricated from 33 expansion borosilicate glass. Amber EPA vials, for light sensitive solutions, are fabricated from 51 expansion amber borosilicate glass.

Open top closures and PTFE-faced silicone septa or solid top PTFE-faced white rubber-lined closures are available separately.

While vials are not "pre-cleaned", they are packaged in a plastic, shrink-wrap module, lehr-clean, as they come from the end of the production lehr. They are then placed into corrugated shelf-packs.

EPA Water Analysis Vials without Closures

- Available in clear 33 expansion or 51 expansion amber borosilicate glass
- Closures not included
- GPI 24-400 thread finish

Catalog Number	Glass Type	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Shelf-Pack Qty.	Case Qty.
60958A-4	clear	20	5	28 x 57	24-400	144	432
60958A-6	clear	30	7 1/2	28 x 70	24-400	144	432
60958A-912*	clear	40	10	28 x 95	24-400	144	432
60958A-11	clear	45	11 1/4	28 x 108	24-400	144	432
60958A-16	clear	60	15	30 x 123	24-400	144	432
60960A-4	amber	20	5	28 x 57	24-400	144	432
60960A-912*	amber	40	10	28 x 95	24-400	144	432

* EPA 40 CFR 136 "Guidelines for Establishing Test Procedures for the Analysis of Pollutants" and EPA 40 CFR 141 "National Interim Primary Drinking Water Regulations; Control of Trihalomethanes in Drinking Water" and recommends the use of 28 x 95 mm vial for discrete water sampling. KIMBLE also offers the specified open-top closures (73804 and 73806A) as well as the PTFE-faced silicone rubber septum (73818A).

60958A

60960A

EPA Water Analysis Vials with Attached Closures

- Fabricated from clear 33 expansion borosilicate glass
- Open top, white polypropylene, screw thread closures
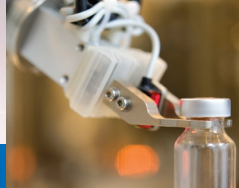- PTFE-faced silicone septa included

Septa are PTFE-faced (0.005") silicone rubber (0.120").

Catalog Number	Glass Type	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Shelf-Pack Qty.	Case Qty.
60961C-4	clear	20	5	28 x 60	24-400	72	432
60961C-6	clear	30	7 1/2	28 x 73	24-400	72	432
60961C-912	clear	40	10	28 x 98	24-400	72	432

60961C

Cap Selection Chart for EPA Water Analysis Vials

	Cap Type	Liner Type	Properties	Catalog Number	Case Qty.
	Solid top phenolic cap with GPI 24-400 threads	**PTFE-faced white rubber**	• Autoclavable • Excellent sealing ability	**73802-24400**	**144**
	Open top phenolic cap with GPI 24-400 threads	**Unlined**	• Autoclavable • Excellent sealing ability	**73804-24400**	**144**
	Solid top polypropylene cap with GPI 24-400 threads	**Welded PTFE / silicone liner**	• Ideal for repeated autoclaving • Welded liner eliminates possibility of glue contamination	**73808-24400**	**72**
	Solid top phenolic cap with GPI 24-400 threads	**Tinfoil** foil laminated to paper and bonded to 0.035" pulpboard	• Good barrier • Good resistance to alcohols, hydrocarbons, ketones, oils • Not recommended for acids and alkalis	**75203G-24400**	**144**
	Solid top phenolic cap with GPI 24-400 threads	**White rubber** 0.050" homogenous white rubber	• Hermetic sealing • Resistant to moisture vapor • Chemical barrier • Autoclavable	**75204G-24400**	**144**
	Solid top phenolic cap with GPI 24-400 threads	**Taperseal (cone-shaped)** LDPE	• Excellent sealing ability • Stress crack resistant • Excellent torque retention	**75205G-24400**	**144**
	Solid top phenolic cap with GPI 24-400 threads	**PTFE-faced LDPE foam** 0.005" PTFE 0.050" LDPE foam	• Excellent chemical resistance • Compressible foam for sealability • Poor for organic amines	**75206G-24400**	**144**

Please Note: All caps / liners should be tested to ensure leak and compatibility performance with contents.

Screw Thread Sample Vials with Attached Closures

• Manufactured from clear 33 expansion borosilicate glass
• Closed top black phenolic closures attached
• Choice of PTFE-faced / white rubber liner or white rubber liner
• Vials are packaged in corrugated trays with partitions
• Small case quantities

Vials and Phenolic Caps with PTFE-Faced / White Rubber Liners

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60811B-1	4	1	15 x 45	13-425	144
60811B-12	2	1/2	12 x 35	8-425	288
60811B-2	8	2	17 x 60	15-425	144
60811B-3	12	3	19 x 65	15-425	144
60811B-4	16	4	21 x 70	18-400	144
60811B-5	20	5	28 x 57	24-400	72
60811B-6	24	6	23 x 85	20-400	144
60811B-612	25	6 1/4	28 x 70	24-400	72
60811B-10	40	10	28 x 95	24-400	72

Vials and Phenolic Caps with White Rubber Liners

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60811D-1	4	1	15 x 45	13-425	144
60811D-12	2	1/2	12 x 35	8-425	288
60811D-1528	2	1/2	15 x 28	13-425	200
60811D-1738	4	1	17 x 38	15-425	200
60811D-1940	5.5	1.5	19 x 40	15-425	200
60811D-2	8	2	17 x 60	15-425	144
60811D-3	12	3	19 x 65	15-425	144
60811D-4	16	4	21 x 70	18-400	144
60811D-5	20	5	28 x 57	24-400	72
60811D-6	24	6	23 x 85	20-400	144
60811D-612	25	6 1/4	28 x 70	24-400	72
60811D-10	40	10	28 x 95	24-400	72

60811B
60811D

Low extractable, KIMAX® 33 expansion glass conforms to ASTM Type I, Class A requirements.

60940A

Screw Thread Vials with Attached Closures

• Manufactured from clear 33 expansion borosilicate glass
• Closed top white PTFE closures attached

The 16 mL size complies with EPA 600 Series Methods.

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60940A-2	1.8	3/8	12 x 35	8-425	144
60940A-4	4	1	15 x 45	13-425	144
60940A-8	8	2	17 x 60	15-425	144
60940A-12	12	3	19 x 65	15-425	144
60940A-16	16	4	21 x 70	18-400	144
60940A-24	24	6	23 x 85	20-400	144

Screw Thread Sample Vials with Attached Closures

• Manufactured from clear 33 expansionborosilicate glass
• Open top white polypropylene closures attached
• Closures supplied with PTFE-faced silicone septa
• Vials are packaged in corrugated trays with partitions

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60811S-5	20	5	28 x 57	24-400	72
60811S-10	40	10	28 x 95	24-400	72

60811S

Screw Thread Vials with Attached Closures

• Manufactured from clear 33 expansion borosilicate glass
• Open top black polypropylene closures with PTFE / silicone septa

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60942A-8	8	2	17 x 60	15-425	144
60942A-12	12	3	19 x 65	15-425	144
60942A-16	16	4	21 x 70	18-400	144
60942A-24	24	6	23 x 85	20-400	144
60942A-40	40	10	28 x 95	24-400	72

Screw Thread Sample Vials with Unattached Closures

• Manufactured from clear 33 expansion borosilicate glass
• Closed top black phenolic closures, unattached
• Closures includes PTFE-faced / white rubber liners

Vials and Phenolic Caps with PTFE-Faced White Rubber Liners

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60812B-1	4	1	15 x 45	13-425	200
60812B-12	2	1/2	12 x 35	8-425	200
60812B-1232	1.8	3/8	12 x 32	8-425	200
60812B-2	8	2	17 x60	15-425	200
60812B-3	12	3	19 x 65	15-425	200
60812B-4	16	4	21 x 70	18-400	200
60812B-6	24	6	23 x 85	20-400	200

Vials and Phenolic Caps with White Rubber Liners

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60812D-12	2	1/2	12 x 35	8-425	200

Screw Thread Vials with Unattached Closures

• Manufactured from clear 33 expansion borosilicate glass
• Closed top black phenolic closures, unattached
• Closures supplied with rubber liners

Economical and saves time in the lab.

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Shelf-Pack Qty.	Case Qty.
60940D-12	2	1/2	12 x 35	8-425	144	2304
60940D-1	4	1	15 x 45	13-425	144	2304
60940D-2	8	2	17 x 60	15-425	144	1728
60940D-3	12	3	19 x 65	15-425	144	1152
60940D-4	16	4	21 x 70	18-400	144	1152
60940D-6	24	6	23 x 85	20-400	144	864

Types of Clear Glass Used in Making Kimble Chase Vials

• 33 expansion and 51 expansion borosilicate glass

33 expansion and 51 expansion borosilicate glass are types of clear glass that belong to the KIMAX® family of borosilicate glasses. 33 expansion has a low coefficient of expansion and the highest resistance to chemical attack. 51 expansion borosilicate glass has good chemical durability and a comparatively low coefficient of expansion, providing good resistance to heat shock.

33 expansion meets the requirements for Type I Class A glass of ASTM E438. 51 expansion meets the requirements for Type I Class B glass of ASTM E438.

Low extractable, KIMAX® 33 expansion glass conforms to ASTM Type I, Class A requirements.
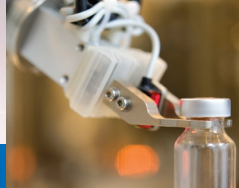
60942A

New!

60812B

New!

60812D

60940D

**Clear
Sample Vials**

New!

60812

Closures
are listed
starting on
page 21.

60810

Short Style
for Better
Stability

60810

**60957C
60957D**

Screw Thread Sample Vials without Closures

- Manufactured from clear 33 expansion borosilicate glass
- Vials are packaged in corrugated trays with partitions

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60812-1232	1.8	3/8	12 x 32	8-425	200
60812-1235	2	1/2	12 x 35	8-425	200
60812-1528	2	1/2	15 x 28	13-425	200
60812-1545	4	1	15 x 45	13-425	200
60812-1738	4	1	17 x 38	15-425	200
60812-1940	6	1 1/2	19 x 40	15-425	200
60812-1760	8	2	17 x 60	15-425	200
60812-1965	12	3	19 x 65	15-425	200
60812-2170	16	4	21 x 70	18-400	200
60812-2857	20	5	28 x 57	24-400	200
60812-2385	24	6	23 x 85	20-400	200
60812-2870	25	6 1/4	28 x 70	24-400	200
60812-2895	40	10	28 x 95	24-400	200

Screw Thread Sample Vials without Closures

- Manufactured from clear 33 expansion borosilicate glass

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Shelf-Pack Qty.	Case Qty.
60810-1760	8	2	17 x 60	15-425	200	1000
60810-1965	12	3	19 x 65	15-425	200	1000
60810-2170	16	4	21 x 70	18-400	200	1000
60810-2385	20	6	23 x 85	20-400	200	1000

Screw Thread, Short Style, Sample Vials without Closures

- Ideal for compound storage
- Manufactured from clear 33 expansion borosilicate glass
- Short style for increased stability and less dead volume of sample

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Shelf-Pack Qty.	Case Qty.
60810-1528	2	1/2	15 x 28	13-425	200	1000
60810-1940	6	1 1/2	19 x 40	15-425	200	1000

Screw Thread Vials with Unattached Closure

- Manufactured from clear 51 expansion borosilicate glass
- Closed top black phenolic closures with polyvinyl-faced pulp or rubber liners

Vials and Phenolic Caps with Polyvinyl-faced Liners

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Shelf-Pack Qty.	Case Qty.
60957C-4	20	5	28 x 57	24-400	144	432
60957C-6	24	6	28 x 70	24-400	144	432
60957C-11	40	10	28 x 108	24-400	144	432

Vials and Phenolic Caps with Rubber Liners

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Shelf-Pack Qty.	Case Qty.
60957D-4	20	5	28 x 57	24-400	144	432
60957D-6	24	6	28 x 70	24-400	144	432
60957D-11	40	10	28 x 108	24-400	144	432

KIMBLE CHASE

Screw Thread Vials with Unattached Closures

- Manufactured from clear 51 expansion borosilicate glass
- Closed top black phenolic closures with polyvinyl-faced pulp liners

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Shelf-Pack Qty.	Case Qty.
60910C-12	2	1/2	12 x 35	8-425	144	2304
60910C-1	4	1	15 x 45	13-425	144	2304
60910C-112	5.5	1 1/2	16 x 50	13-425	144	2304
60910C-2	8	2	17 x 60	15-425	144	1728
60910C-3	12	3	19 x 65	15-425	144	1152
60910C-4	16	4	21 x 70	18-400	144	1152
60910C-6	24	6	23 x 85	20-400	144	864
60910C-8	30	8	25 x 95	22-400	144	576

Low extractable, KIMAX® 51 expansion borosilicate glass conforms to ASTM Type I, Class B requirements.

60910C

Screw Thread Vials with Unattached Closures

- Manufactured from clear 51 expansion borosilicate glass
- Closed top black phenolic closures, unattached
- Closures supplied with rubber liners

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Shelf-Pack Qty.	Case Qty.
60910D-1	4	1	15 x 45	13-425	144	2304
60910D-2	8	2	17 x 60	15-425	144	1728
60910D-3	12	3	19 x 65	15-425	144	1152
60910D-4	16	4	21 x 70	18-400	144	1152

60910D 60910L

Screw Thread Vials with Unattached Closures

- Manufactured from clear 51 expansion borosilicate glass
- Closed top black phenolic closures, unattached
- Closures supplied with rubber liners
- Vials are packaged in lab packs

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Shelf-Pack Qty.	Case Qty.
60910L-12	2	1/2	12 x 35	8-425	72	576
60910L-1	4	1	15 x 45	13-425	72	576
60910L-2	8	2	17 x 60	15-425	72	576

Screw Thread Vials without Closures

- Manufactured from clear 51 expansion borosilicate glass
- Closures not included

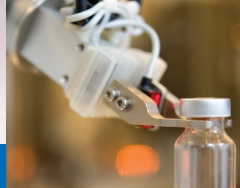| Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Shelf-Pack Qty.	Case Qty.
60910-1	4	1	15 x 45	13-425	144	3456
60910-2	8	2	17 x 60	15-425	144	2160
60910-3	12	3	19 x 65	15-425	144	1728
60910-4	16	4	21 x 70	18-400	144	1152
60910-6	24	6	23 x 85	20-400	144	864
60910-8	30	7 3/4	25 x 95	22-400	144	864

60910

Screw Thread Vials without Closures

- Manufactured from clear 51 expansion borosilicate glass
- Closures not included

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Shelf-Pack Qty.	Case Qty.
60957-1	20	5	28 x 57	24-400	72	720
60957-4	40	10	28 x 108	24-400	72	432

60957

Amber Screw Thread Vials with Attached Closures

- Manufactured from 51 expansion amber borosilicate glass
- Closed top black phenolic closures attached
- Closures with PTFE-faced / white rubber liners or white rubber liners
- Vials packaged in corrugated trays with partitions

Vials and Phenolic Caps with PTFE-Faced / White Rubber Liners

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60911B-1	4	1	15 x 45	13-425	144
60911B-12	2	1/2	12 x 35	8-425	288
60911B-1528	2	1/2	15 x 28	13-425	200
60911B-1738	4	1	17 x 38	15-425	200
60911B-1940	5.5	1 1/2	19 x 40	15-425	200
60911B-2	8	2	17 x 60	15-425	144
60911B-5	20	5	28 x 57	24-400	72
60911B-10	40	10	28 x 95	24-400	72

Vials and Phenolic Caps with White Rubber Liners

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60911D-1	4	1	15 x 45	13-425	144
60911D-12	2	1/2	12 x 35	8-425	288
60911D-2	8	2	17 x 60	15-425	144
60911D-5	20	5	28 x 57	24-400	72

60911B
60911D

Amber Screw Thread Vials with Attached Caps

- Manufactured from 51 expansion amber borosilicate glass
- Open top white polypropylene closures attached
- Closures supplied with PTFE-faced, silicone septa
- Vials packaged in corrugated trays with partitions

Septa is PTFE-faced (0.005") silicone (0.120").

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60911P-10	40	10	28 x 95	24-400	72

New!

Amber Screw Thread Vials with Attached Caps

- Manufactured from 51 expansion amber borosilicate glass
- Open top white polypropylene closures attached
- Closures supplied with PTFE-faced, silicone septa
- Vials packaged in corrugated trays with partitions

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60911S-5	20	5	28 x 57	24-400	72
60911S-10	40	10	28 x 95	24-400	72

60911P
60911S

Amber Screw Thread Vials with Unattached Closures

- Manufactured from 51 expansion amber borosilicate glass
- Closed top black phenolic closures, unattached
- Closures supplied with PTFE-faced / white rubber liners

Vials and Phenolic Caps with PTFE-Faced / White Rubber Liners

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60912B-1	4	1	15 x 45	13-425	200
60912B-12	2	1/2	12 x 35	8-425	200
60912B-1232	2	1/2	12 x 32	8-425	200
60912B-2	8	2	17 x 60	15-425	200

Vials and Phenolic Caps with White Rubber Liners

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60912D-1	4	1	15 x 45	13-425	200
60912D-12	2	1/2	12 x 35	8-425	200
60912D-2	8	2	17 x 60	15-425	200

New!

**60912B
60912D**

Amber Screw Thread Vials with Unattached Closures

- Manufactured from 51 expansion amber borosilicate glass
- Closed top black phenolic closures, unattached
- Closures supplied with rubber liners

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Shelf-Pack Qty.	Case Qty.
60920D-4	16	4	21 x 70	18-400	144	1152
60920D-8	30	7 3/4	25 x 95	22-400	144	576

60920D

Amber Screw Thread Vials without Closures

- Manufactured from 51 expansion amber borosilicate glass
- Closures not included

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	GPI Thread Finish	Case Qty.
60912-1235	2	1/2	12 x 35	8-425	200
60912-1528	2	1/2	15 x 28	13-425	200
60912-1545	4	1	15 x 45	13-425	200
60912-1738	4	1	17 x 38	15-425	200
60912-1940	5.5	1 1/2	19 x 40	15-425	200
60815-1760	8	2	17 x 60	15-425	1000
60912-1760	8	2	17 x 60	15-425	200
60815-1965	12	3	19 x 65	15-425	1000
60912-2857	20	5	28 x 57	24-400	200
60912-2895	40	10	28 x 95	24-400	200

New!

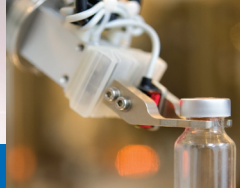**Closures are listed starting on page 21.**

**60815
60912**

All Kimble Chase Scintillation Vials on this page feature

- 20 mL size
- Manufactured from clear 33 expansion borosilicate glass
- Choose from a variety of cap materials and liners
- Vials are packaged in cellular trays of 100 pieces, 5 trays per case
- Trays are shrink-wrapped to preserve cleanliness

Value Added - *Vials are packaged in cellular trays having alpha-numeric coordinates for fast and easy identification. Trays are shrink wrapped to preserve cleanliness. Each tray contains 100 vials, five trays per case.*

20mL Glass Scintillation Vials with Attached Closures

Catalog Number	Cap Size (mm)	Cap Material	Cap Liner	Case Qty.
74500-20	22	urea	cork-backed foil	500
74501-20	22	urea	polyethylene disc liner	500
74504-20	22	polypropylene	pulp-backed foil	500
74505-20	22	polypropylene	foamed polyethylene	500
74516-20	22	urea	taperseal cone	500
74502-20	24	polypropylene	foamed polyethylene	500
74509-20	24	polypropylene	metal foil liner	500
74507-20	24	urea	metal foil liner	500
74508-20	24	urea	polyethylene disc liner	500

New!
cap and liner combinations

20mL Glass Scintillation Vials with Unattached Closures

- Closures are packed separately in PE bags of 100 pieces (separate tray)

Catalog Number	Cap Size (mm)	Cap Material	Cap Liner	Case Qty.
74510-20	22	urea	cork-backed foil	500
74511-20	22	polyethylene	linerless	500
74512-20	22	polypropylene	pulp-backed foil	500
74513-20	22	polypropylene	foamed polyethylene liner	500
74515-20	22	urea	taperseal cone	500
74514-20	24	polypropylene	foamed polyethylene liner	500
74517-20	24	polypropylene	metal foil liner	500

74503

20mL Large Opening, Glass Scintillation Vials with Unattached Closures

- Wider opening facilitates introduction of large size samples
- Closures are packed separately in PE bags of 100 pieces (separate tray)
- Recommended for use on Packard scintillation vial counters

Catalog Number	Cap Size (mm)	Cap Material	Cap Liner	Case Qty.
74503-20	24	urea	cork-backed foil	500

20mL Glass Scintillation Vials without Closures

- Closures are not included
- Recommended for use on Packard scintillation vial counters

Catalog Number	Cap Size (mm)	Case Qty.
74506-20	22	500

For closures, see page 17.

74506

KIMBLE CHASE

20mL Polyethylene Scintillation Vials with Attached Caps

- 20 mL size
- Manufactured from high density polyethylene
- Choice of cap material and liner
- Vials are packaged in cellular trays of 100 pieces, 5 trays per case
- Trays are shrink-wrapped to preserve cleanliness

Vials, with caps attached, are packaged in cellular trays having alpha numeric coordinates for fast, easy identification.

58500
58504

Catalog Number	Cap Size (mm)	Cap Material	Cap Liner	Case Qty.
58500-20	22	urea	cork-backed foil	500
58504-20	22	polypropylene	pulp-backed foil	500

20mL Polyethylene Scintillation Vials with Unattached Caps

- 20 mL size
- Manufactured from high density polyethylene
- Choose from a variety of cap materials and liners
- Closures are packed separately in PE bags of 100 pieces (separate tray)
- Vials are packaged in cellular trays of 100 pieces, 5 trays per case
- Trays are shrink-wrapped to preserve cleanliness

58510
58511
58512
58515

Catalog Number	Cap Size (mm)	Cap Material	Cap Liner	Case Qty.
58510-20	22	urea	cork-backed foil	500
58511-20	22	polypropylene	foamed polyethylene	500
58512-20	22	polypropylene	pulp-backed foil	500
58515-20	22	urea	taperseal cone	500

These polyethylene scintillation *vials are packaged in cellular trays having alpha-numeric coordinates for fast and easy identification. Trays are shrink wrapped to preserve cleanliness. Each tray contains 100 vials, five trays per case.*

For the most savings, choose KIM-BULK

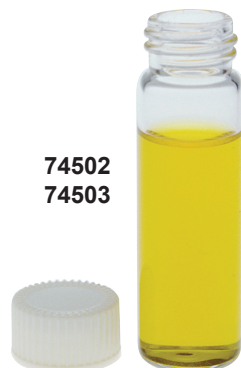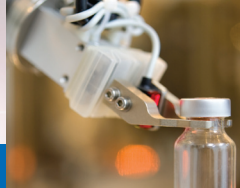- **Vials come packed in bags of 1000**

58501, 58510B, 58511B

Polyethylene Scintillation Vials with Unattached Closures, KIM-BULK®

- 20 mL size
- Manufactured from high density polyethylene
- Choose from a variety of cap materials and liners
- Vials and closures are packed separately in PE bags of 1000 pieces
- Economical KIM-BULK® packaging for the most savings

Catalog Number	Cap Size (mm)	Cap Material	Cap Liner	Case Qty.
58501-20	22	polypropylene	pulp-backed foil	1000
58510B-20	22	urea	cork-backed foil	1000
58511B-20	22	polypropylene	foamed polypropylene	1000

7mL SOLVENT SAVER® Glass Scintillation Vials with Unattached Closures

- Manufactured from clear 33 expansion borosilicate glass
- Choice of cap material and liner
- Closures are packed separately in PE bags of 200 pieces (1000 per tray)
- Vials are packaged in cellular trays of 200 pieces
- Trays are shrink-wrapped to preserve cleanliness

These 7mL glass vials are an economical alternative when used as liquid scintillation vials. They are manufactured from ASTM, Type I, Class A borosilicate glass.

74502
74503

Catalog Number	Cap Size (mm)	Cap Material	Cap Liner	Case Qty.
74502-7	15	urea	cork-backed foil	1000
74503-7	15	polypropylene	pulp-backed foil	1000

7mL SOLVENT SAVER® Polyethylene Scintillation Vials with Unattached Closures

- Manufactured from polyethylene
- Vial designed to fit 74700 carrier vial or for use on their own in some newer equipment
- Vials and closures packaged in shrink-wrapped trays of 250 each (closures are in PE bags); four trays per case
- Dimensions with closures attached are 17 x 57 mm

58502

Catalog Number	Cap Size (mm)	Cap Material	Cap Liner	Case Qty.
58502-7	15	polyethylene	—	1000

7mL SOLVENT SAVER® Polyethylene Scintillation Vials with Unattached Closures, KIM-BULK®

- Manufactured from polyethylene
- Vial designed to fit 74700 carrier vial or for use on their own in some newer equipment
- Vials and closures packed separately, 1000 per PE bag
- Economical KIM-BULK® packaging for the most savings
- Dimensions with closures attached are 17 x 57 mm

58503

Catalog Number	Cap Size (mm)	Cap Material	Cap Liner	Case Qty.
58503-7	15	polyethylene	—	1000

4mL SOLVENT SAVER® Polyethylene Scintillation Shell Vials with Unattached Closures, KIM-BULK®

- Manufactured from polyethylene
- Linerless polyethylene snap-on closures
- Vial designed to fit 74700 carrier vial or for use on their own in some newer equipment
- Vials and closures packed separately, 1000 per PE bag
- Dimensions with closures attached are 14 x 56 mm
- Designed for beta and gamma counting

58552

Catalog Number	Cap Material	Case Qty.
58552-4	polyethylene	1000

KIMBLE CHASE

White Urea Closures with Cork-Backed Aluminum Foil Liners

Closure is made from white urea and has cork-backed aluminum foil liner. Closure is not autoclavable. Top is suitable for marking. Caps are packed 100 pieces per plastic bag, 10 bags per case.

Catalog Number	GPI Thread Finish	Approx. Case Qty.
74520-15425	15-425	1000
74520-22400	22-400	1000

74520

White Polypropylene Closures with Pulp-Backed Aluminum Foil Liners

Closure is made from white polypropylene and has a pulp-backed aluminum foil liner. Top is suitable for marking. Suitable for use with some strong oxidizing agent scintillation "cocktails". Closures are packed 100 pieces per plastic bag, 10 bags per case.

Catalog Number	GPI Thread Finish	Approx. Case Qty.
74521-15425	15-425	1000
74521-22400	22-400	1000

74521

White Polyethylene Closures without Liners

Closure is made from white polyethylene and is linerless. Top is suitable for marking. Closures are packed 100 pieces per plastic bag, 10 bags per case.

Catalog Number	GPI Thread Finish	Approx. Case Qty.
74522-22400	22-400	1000

74522

White Polypropylene Closures with White Rubber Liners

Closure is made from white polypropylene with white rubber liner (F-217). Top is suitable for marking. Closures are packed 100 pieces per plastic bag, 10 bags per case.

Catalog Number	GPI Thread Finish	Approx. Case Qty.
74524-22400	22-400	1000

74524

White Urea Taperseal Cone Closures

Cap is made from white urea and has a polyethylene cone-shaped liner. Top is suitable for marking. Closure is not autoclavable, as the liner may melt. Closures are packed 1000 pieces per plastic bag in a cardboard box.

Catalog Number	GPI Thread Finish	Approx. Case Qty.
74525-22400	22-400	1000

74525

White Urea Closures with White Rubber / PTFE Liners

Replacement for 74504, 74512, 58501, 58504, and 58512. Closure is made from white urea and has a white rubber F-217 / PTFE liner. Top is suitable for marking. Suitable for long term sample storage. Closures are packed 100 pieces per plastic bag, 5 bags per case.

Catalog Number	GPI Thread Finish	Approx. Case Qty.
74526-22400	22-400	500

74526

Closures are listed starting on page 21.

61000G

61020G

Serum Bottles without Closures

- Manufactured from clear Type I borosilicate glass conforming to USP Type I requirements
- Suitable for most lyophilization applications
- GPI aluminum seal finish — closure not included

Kimble Chase molded serum bottles are made from a borosilicate glass with unique properties. It has the highest resistance to chemical attack of any known commercially available glass. This glass is ideal for the packaging, storage and application of injectable and parenteral solutions requiring utmost purity. Serum bottles have a high resistance to thermal and mechanical shock. They meet or exceed U.S.P. Specifications for Type I Glass Containers.

Catalog Number	Capacity (mL)	O.D. x Ht. (mm)	GPI A/S Neck Finish	Case Qty.
61000G-5	5	23 x 47	20A	288

Serum Bottles without Closures

- Manufactured from amber borosilicate glass
- GPI aluminum seal finish — closures not included

Catalog Number	Capacity (mL)	O.D. x Ht. (mm)	GPI A/S Neck Finish (mm)	Case Qty.
61020G-50	50	43 x 75	20A	288

Serum vials are lighter in weight than molded bottles with more closely held tolerances and uniformity of glass. Enhanced by the most popular GPI aluminum seal finishes, this line offers a variety of choices. Vials and bottles are available in clear and amber borosilicate glasses.

Autoclavable Kimble Chase serum vials and bottles are ideally suited for the handling, containment, and storage of a variety of liquids including reagents, vaccines, blood plasma, culture media, chromatography samples and more. Aluminum seals, stoppers and septa are available separately.

62113D
62121D

62413D
62421D

Serum Vials without Closures

- Kimble Chase tubular serum vials are manufactured from clear 33 expansion borosilicate glass, reducing possible extractable interference
- GPI aluminum seal finish — closures not included
- Special design provides extra strength for freeze-drying applications

Catalog Number	Capacity (mL)	O.D. x Ht. (mm)	GPI A/S Neck Finish (mm)	Case Qty.
62113D-2	2	15 x 40	13	1440
62113D-312	3.5	18 x 45	13	1440
62121D-5	5	23 x 47	20	864
62121D-10	10	25 x 54	20	864
62121D-20	20	30 x 57	20	720

Serum Vials without Closures

- Manufactured from 51 expansion amber borosilicate glass
- GPI aluminum seal finish — closures not included

Catalog Number	Capacity (mL)	O.D. x Ht. (mm)	GPI A/S Neck Finish (mm)	Case Qty.
62413D-2	2	15 x 40	13	1440
62421D-5	5	23 x 47	20	864
62421D-10	10	25 x 54	20	864
62421D-30	30	30 x 86	20	576

Shell Vials with Unattached, Plug Style, Needle Closures

- Manufactured from clear 51 expansion borosilicate glass
- TITESEAL® vials with white polyethylene closures
- Ideal for chromatography applications
- Sizes ranging from 0.75 to 4.0mL

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	Shelf-Pack Qty.	Case Qty.
60831D-830	0.75	1/5	8 x 30	200	2000
60831D-843	1	1/4	8 x 43	200	2000
60831D-1231	2	1/2	12 x 31	200	2000
60831D-1544	4	1	15 x 44	200	2000

60831D

Shell Vials with Unattached, Plug Style, Needle Closures

- Manufactured from 51 expansion amber borosilicate glass
- For use with light-sensitive samples
- Ideal for chromatography applications
- TITESEAL® vials with white polyethylene closures

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	Shelf-Pack Qty.	Case Qty.
60835D-843	1	1/4	8 x 43	200	2000
60835D-1544	4	1	15 x 44	200	2000

60835D

Disposable Shell Vials for Chloride Meters

- Manufactured from clear 51 expansion borosilicate glass
- Sample vial for dilution and titration procedures of chloride determinations
- Shrink wrapped in cellular trays for safe transit and cleanliness

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	Shelf-Pack Qty.	Case Qty.
74400-2040	10	2 3/4	20 x 40	100	500

74400

Short Style, Shell Vials without Closures

- Manufactured from clear 51 expansion borosilicate glass
- Plain top design
- Lab Pack quantities

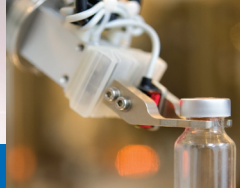| Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	Shelf-Pack Qty.	Case Qty.
60931-14	1	1/4	9 x 30	144	1440
60931-12	2	1/2	12 x 35	144	1440
60931-1	4	1	15 x 45	144	1440
60931-2	8	2	17 x 60	144	864
60931-4	16	4	21 x 70	144	576
60931-6	24	6	23 x 85	144	576
60931-8	30	7 3/4	25 x 95	144	576

60931

Shell Vials without Closures

- Manufactured from clear 51 expansion borosilicate glass
- Plain top design

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	Shelf-Pack Qty.	Case Qty.
60965-4	16	4	24 x 62	144	576

60965

Shell Vials with Unattached, Plug Style, Closures

- Manufactured from clear 51 expansion borosilicate glass
- Plain tops
- TITESEAL® vials with open bottom, plastic closures

60965D

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	Shelf-Pack Qty.	Case Qty.
60965D-12	2	1/2	12 x 35	144	2304
60965D-1	4	1	15 x 45	144	2304
60965D-3	12	3	19 x 65	144	1152
60965D-7	26	6 1/2	29 x 65	144	432
60965D-120	44	11	29 x 94	144	432

Tooled Neck Vials with Unattached Closures*, OPTICLEAR®

- Manufactured from clear 51 expansion borosilicate glass
- Tooled neck for added strength and accurate fit with cap
- Vials with unattached, polyethylene closures
- Excellent for packing drug products

Necks are tooled for an accurate fit with polyethylene closures. Vials and closures are supplied in both the pack and case quantities. The 1 dram size is supplied with open bottom closures. All other sizes are supplied with closed bottom, two-piece closures.

60975L

Catalog Number	Cap. (mL)	Cap. (drams)	O.D. x Ht. (mm)	Shelf-Pack Qty.	Case Qty.
60975L-1	4	1	15 x 45	72	864
60975L-3	12	3	21 x 50	72	432
60975L-4	16	4	25 x 52	72	288
60975L-5	20	5	27 x 55	72	216

* 1 dram size has open bottom stoppers. All other sizes have closed bottom stoppers.

KimCote® KC Series

NEW KimCote® Plastic-Coated Glassware for an Added Measure of Safety!

- Helps prevent and contain spills in the event of glassware breakage
- Ultra-clear for improved sample viewing
- Non-slip surface — wet or dry
- Autoclavable and chemical resistant
- Durable and odor-free

Learn more on the web!

www.kimble-chase.com

KimCote® protective glassware coating goes beyond traditional coatings. Should a break occur, KimCote® will reduce the hazards of shattered glass and leakage of toxic or corrosive chemicals. It's ultra-clear, extremely durable, autoclavable and resistant to many common laboratory chemicals. The unique KimCote® texture also provides a non-slip handling surface, wet or dry.

Use KimCote® anywhere you want to increase safety!

- Pressurized glassware
- Chemical storage
- Transportation of samples
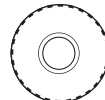- Handling of hazardous chemicals, harmful biologicals and acids

KIMBLE CHASE
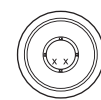
Aluminum Seals

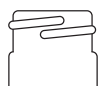Vial with Aluminum
Seal Finish
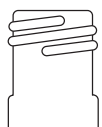
Flip Up Cap

Open Top

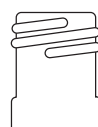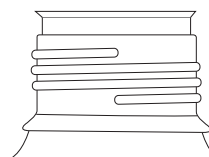Complete Tear Off

Tear Off Cap

Screw Thread Caps

400

410
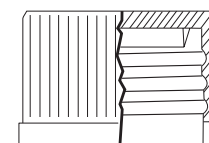
415

425

430

GL-45

Stoppers
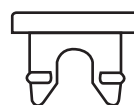
Straight
Plug Style

2 Leg Lyophilization
13mm

Snap-On
Style

2 Leg Lyophilization
20mm

73820 Series

Aluminum Seals, One Piece, Unlined Tear-Out Style

- Allows for easy access to septa.

Catalog Number	Fits GPI Aluminum Seal Finish	Color	Shelf-Pack Qty.	Case Qty.
73820-13	13	natural	-	1000
73820-20	20 or 20A	natural	100	1000

73821 Series

Aluminum Seals, One Piece, Unlined, Tear-Off Style

- Allows for easy access to vial contents.

Catalog Number	Fits GPI Aluminum Seal Finish	Color	Shelf-Pack Qty.	Case Qty.
73821-13	13	natural	100	1000
73821-20	20 or 20A	natural	100	1000

73843 series

Aluminum Seals, Button Top, Unlined Flip-Up, Color Coded

- Easy to use and tamper-evident
- Available in red or white

Catalog Number	Fits GPI Aluminum Seal Finish	Color	Case Qty.
73843A-20	20	white	1000
73843C-20	20	red	1000
73843A-13	13	white	1000
73843B-13	13	blue	1000
73843B-20	20	blue	1000
73843C-13	13	red	1000
73843D-13	13	green	1000
73843D-20	20	green	1000
73844A-13	13	white	1000
73844B-13	13	blue	1000
73844C-13	13	red	1000
73845A-20	20	white	1000
73845B-20	20	blue	1000
73845C-20	20	red	1000
73843D-20	20	green	1000

N73824 Series

Aluminum Seals, with PTFE-Faced Silicone Rubber Liners

- Medium durometer PTFE / silicone construction for GPI 13 and 20 sizes
- Good for resealability, core resistance, multiple injections, and easy penetration

Catalog Number	Fits GPI Aluminum Seal Finish	Color	Thickness, Inches PTFE	Thickness, Inches Silicone Rubber	Case Qty.
N73824-11	11	natural	0.002	0.040	100
N73824-13	13	natural	0.002	0.060	144
N73824T-20	20 or 20A	natural	0.002	0.060	100

N73826 Series

Aluminum Seals, with PTFE-Faced Red Rubber Septa

- Most popular and economical choice for general GC applications
- Moderate resealability
- Not recommended for multiple injections or long-term storage

Catalog Number	Fits GPI Aluminum Seal Finish	Color	Thickness, Inches PTFE	Thickness, Inches Red Rubber	Case Qty.
N73826-11	11	red	0.002	0.040	1000
N73826-13	13	red	0.002	0.060	1000
N73823T-20	20mm	red	N/A	N/A	100
N73823-13	13mm	red	0.002	0.050	144
N73823-20	20mm	red	0.002	0.060	144
N73834B-20	20mm	red	N/A	N.A	1000

Polypropylene, Screw Thread Caps, Linerless

- Economical, one-piece construction in white or natural
- Seal acheived by unique interior design
- Withstands repeated autoclaving
- Designed from ASTM Specification E982

During autoclaving, closures should be removed or loosely applied as they may melt. Also for use with Kimble tubes 73750, 73760, 73770, 73785.

Catalog Number	GPI Thread Finish	Color	Case Qty.
73805-15415	15-415	white	1000
73805B-13415	13-415	natural	1000
73805B-15415	15-415	natural	1000
73805B-18415	18-415	natural	500

73805 White

73805B Natural

Black PP, Screw Thread Caps with PTFE / Silicone Liners

- Welded PTFE / silicone liner eliminates glue contamination
- MICROLINK® patented technology
- Ideal for repeated autoclaving

Catalog Number	GPI Thread Finish	Case Qty.
73808-13415	13-415	288
73808-15415	15-415	288
73808-18415	18-415	288
73808-24400	24-400	72
73808-24410	24-410	144
73808-28400	28-400	48
73808-28410	28-410	36
73808-33430	33-430	48
73808-38430	38-430	48

73808

Kimble Chase caps are manufactured using the highest quality raw materials and designed for an ideal fit with our autosampler vials.

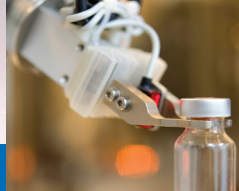## Open-Top Polypropylene Screw Thread Closures with Red PTFE-Faced Silicone Septa

- Convenient assembly of caps and liners
- Available with standard or pre-slit septa
- Autoclavable and used for multiple injections.

Catalog Number	GPI Thread Finish	Septa	Color	Shelf-Pack Qty.	Case Qty.
73812BK-8425	8-425	standard	black	100	1000
73813BK-8425	8-425	pre-slit	black	100	1000
73812WH-8425	8-425	standard	white	100	1000
73813WH-8425	8-425	pre-slit	white	100	1000
73812BK-9425	9-425	standard	black	100	1000
73813BK-9425	9-425	pre-slit	black	100	1000
73812BL-9425	9-425	standard	blue	100	1000
73813BL-9425	9-425	pre-slit	blue	100	1000
73812BK-13425	13-425	standard	black	100	1000
73813BK-13425	13-425	pre-slit	black	100	1000
73812WH-13425	13-425	standard	white	100	1000
73813WH-13425	13-425	pre-slit	white	100	1000

73813BK

73813WH

Pre-assembled caps and septa minimize contamination due to handling.

Open-Top Polypropylene Screw Thread Closures with Bonded White PTFE Liners

- Intended for single-use injection

Catalog Number	GPI Thread Finish	Color	Case Qty.
73814WH-8425	8-425	white	1000
73814BL-9425	9-425	blue	1000
73814BK-13425	13-425	black	1000

73814BK

All of the phenolic caps on these two pages are resistant to the effects of temperature and steam encountered in autoclaving.

45066B

45066C

73800

73802

Black Phenolic Screw Thread Caps with White Rubber Liners

- General purpose liners with adhesive selected for resistance to autoclaving
- Threads extend to half the total height, except the full-threaded 38-430
- Identified in ASTM Specification E982, Class A requirements

Catalog Number	GPI Thread Size	Approx. Cap Height (mm)	Case Qty.
45066B-13	13-415	14	300
45066B-15	15-415	16	300
45066B-18	18-415	18	225
45066B-24	24-410	19	150
45066B-28	28-410	20	150
45066B-38	38-430	26	150

Black Phenolic Screw Thread Caps with PTFE-Faced Rubber Liners

- Liner adhesive selected for its resistance to autoclaving
- Identified in ASTM Specification E982, Class B requirements

Catalog Number	GPI Thread Size	Approx. Cap Height (mm)	Case Qty.
45066C-13	13-415	14	300
45066C-15	15-415	16	300
45066C-18	18-415	18	225
45066C-24	24-410	19	150
45066C-28	28-410	20	150
45066C-38	38-430	26	50

Black Phenolic Screw Thread Caps with Cemented-In Rubber Liners

- Liner adhesive selected for its resistance to autoclaving
- Also intended for use with 73750, 73760 and 73770 disposable culture tubes and 73785 disposable centrifuge tubes
- Designed from ASTM Specification E982

Catalog Number	GPI Thread Finish	Case Qty.
73800-13415	13-415	1000
73800-15415	15-415	1000
73800-18415	18-415	1000

Black Phenolic Screw Thread Caps with Cemented-In, PTFE-Faced, White Rubber Liners

- Cemented-in, PTFE-faced, white rubber liners
- Liner adhesive selected for its resistance to autoclaving
- Sizes 13-415, 15-415 and 24-400 are intended for use with 73785 disposable centrifuge tubes
- Designed from ASTM Specification E982

Catalog Number	GPI Thread Finish	Inner Pack Qty.	Case Qty.
73802-8425	8-425	-	144
73802-13415	13-415	125	500
73802-13425	13-425	-	144
73802-15415	15-415	125	500
73802-15425	15-425	-	144
73802-18400	18-400	-	144
73802-20400	20-400	-	144
73802-22400	22-400	-	144
73802-24400	24-400	-	144
73802-33430	33-430	-	144
73802-38430	38-430	-	144

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Black Phenolic Screw Thread Caps with White Rubber Liners

Catalog Number	GPI Thread Finish	Case Qty.
73803-33430	33-430	144
73803-38430	38-430	144

Black Phenolic Screw Thread Caps without Liners

• Open top closures with excellent chemical resistance
• Linerless
• Autoclavable

Catalog Number	GPI Thread Finish	Hole I.D. (mm)	Case Qty.
73804-15425	15-425	8.7	144
73804-18400	18-400	12	144
73804-20400	20-400	12	144
73804-24400	24-400	14	144

Black Phenolic Screw Thread Caps with Taperseal Liners

• Caps with cone-shaped, PE liners provide a two-part seal — cap seals on vial rim and cone-shaped liner seals at inner diameter of vial opening
• Superior torque retention
• Excellent sample storage and re-sealing properties

Catalog Number	GPI Thread Finish	Case Qty.
73809-13425	13-425	144
73809-15425	15-425	144
73809-18400	18-400	144
73809-20400	20-400	144
73809-22400	22-400	144

All of the phenolic caps on these two pages are resistant to the effects of temperature and steam encountered in autoclaving.

73803

73804

73809

White Urea Screw Thread Caps with PTFE-Faced Foam-Backed Rubber Liners

• Ideal for use with scintillation vials
• PTFE-faced, foam-backed rubber liner

Catalog Number	GPI Thread Finish	Approx. Inner Pack Qty.	Case Qty.
73802U-8425	8-425	144	432
73802U-13425	13-425	144	432
73802U-15425	15-425	144	432
73802U-18400	18-400	144	432
73802U-20400	20-400	144	432
73802U-24400	24-400	144	432

Ideal for use with scintillation vials.

73802U

Additional Scintillation Vial Caps are listed with the vials on page 17.

774161

PTFE-Faced Silicone Rubber Septa

- Used with open top caps for syringe access
- PTFE facing maintains sample integrity
- Silicone rubber allows repeated puncturing

Catalog Number	For Cap Size (mm)	Thickness PTFE (in.)	Thickness Silicone Rubber (in.)	Case Qty.
774161-0008	8	0.005	0.060	48
774161-0013	13	0.005	0.060	48
774161-0015	15	0.005	0.060	48
774161-0018	18	0.005	0.060	24
774161-0020	20	0.005	0.060	24
774161-0024	24	0.005	0.060	24
774161-0924	24	0.010	0.090	24

73816

PTFE-Faced Red Rubber Septa

- Low cost
- Good resealability
- PTFE facing provides a barrier for product contact

Catalog Number	For Cap Size (mm)	Thickness PTFE (in.)	Thickness Red Rubber (in.)	Case Qty.
73816-15	15	0.002	0.060	144
73816-18	18	0.002	0.060	144
73816-20	20	0.002	0.060	144
73816-24	24	0.002	0.060	144

73818 series

PTFE-Faced Silicone Rubber Septa

- Resist coring and are autoclavable
- Recommended for use in autosamplers using screw thread vials
- Great for sample storage

Catalog Number	For Cap Size (mm)	Thickness PTFE (in.)	Thickness Silicone Rubber (in.)	Case Qty.
73818-15	15	0.005	0.060	144
73818-18	18	0.005	0.060	144
73818X-18	18	0.005	0.090	144
73818-20	20	0.005	0.060	144
73818-24	24	0.005	0.060	144
73818X-24	24	0.010	0.090	144
73818A-24*	24	0.005	0.120	144

* 73818A-24 is white PTFE / tan silicone and is recommended for use with the 40 mL EPA vial.

Gray Butyl Rubber Stoppers

• Fit aluminum seal finish vials
• Economical alternative for low temperature applications

Catalog Number	Fits GPI Aluminum Seal Finish	Case Qty.
73827-13	13	1000
73827-21	20	1000

73827

Gray Butyl Rubber Stoppers, Lyophilization Style

• Fit aluminum seal finish vials
• Two leg style reduces possibility of legs sticking together
• Manufactured from the highest grade of raw materials available

Catalog Number	Fits GPI Number of Aluminum Seal Finish	Legs	Description	Case Qty.
73828-13	13	2	Silicone Free	1000
73828A-21	20	2	Silicone Free	1000
73828S-13	13	2	Silicone-Coated	1000

73828(A)

Straight-Sided Gray Chlorobutyl Stoppers

• High quality stopper for research and pharma packaging applications
• Formulation passes Japanese, European and United States pharmacopeia testing for globally marketed pharmaceuticals
• Contains no plasticizers, 2-mercapto-benzothaizole, nitrosamine precursors or natural rubber latex
• Formulation applicable to aqueous solutions with a pH range of 2 to 10
• Available with PTFE facing to improve chemical compatibility and minimize surface interactions
• Durometer 50

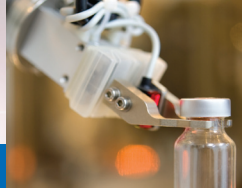| Catalog Number	Description	Fits GPI Serum Finish	Case Qty.
73811-21	stopper, straight-sided	20 mm	1000
73811T-21	stopper, straight-sided, PTFE-faced	20 mm	100

73811(T)

White Polyethylene, Plug-Style, Needle Closures
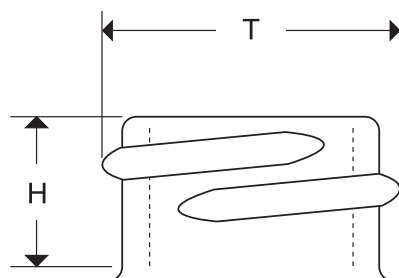
• Made for TITESEAL® shell vials
• Economical

Catalog Number	Accommodates Vials	Shelf-Pack Qty.	Case Qty.
73835-1	60831D-830, 60831D-843, 60835D-843	500	2000
73835-2	60831D-1231	500	2000
73835-3	60831D-1544, 60835D-1544	500	2000

73835

Quick Reference Guide for Kimble Chase Caps

400
425

430

415

GPI refers to the "Glass Packaging Institute" which is responsible for establishing and issuing uniform standards regarding the types of finishes produced by American glass manufacturers. When a cap is designated as 15-425, it means that the diameter across the threaded area is ap-proximately 15 millimeters. (See the "T" dimension on the diagram above.) The number 425 designates a specific style. Since the "H" dimension is not represented in the size code, the chart below will assist in differentiating styles of finishes having similar thread diameters.

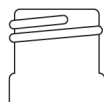| GPI Thread Finish Comparison Chart				
"T" Dimension (mm)	"H" Measurement in Inches			
	400 Finish	410 Finish	415 Finish	425 Finish
8	—	—	—	0.262-0.280 in
10	—	—	—	0.273-0.291 in
13	—	—	0.428-0.458 in	0.298-0.316 in
15	—	—	0.533-0.563 in	0.298-0.316 in
18	0.359-0.377 in	0.499-0.529 in	0.593-0.623 in	—
20	0.359-0.377 in	0.530-0.560 in	0.718-0.748 in	—
22	0.359-0.377 in	—	0.813-0.843 in	—
24	0.388-0.406 in	0.622-0.652 in	0.933-0.963 in	—
28	0.388-0.406 in	0.684-0.714 in	1.058-1.088 in	—
33	0.388-0.406 in	—	0.245-1.275 in	—
38	0.388-0.406 in	—	—	—
43	0.388-0.406 in	—	—	—
45	0.388-0.406 in	—	—	—
48	0.388-0.406 in	—	—	—
53	0.388-0.406 in	—	—	—
58	0.388-0.406 in	—	—	—
63	0.388-0.406 in	—	—	—
70	0.388-0.406 in	—	—	—
77	0.467-0.485 in	—	—	—
83	0.467-0.485 in	—	—	—
89	0.515-0.533 in	—	—	—

Quick Reference Guide for Kimble Chase Caps
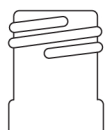
Common Thread Finishes

400

410

415

425

430

A word about our phenolic caps.

- Temperature tolerant
- Wide chemical compatibility range
- Dimensionally stable

Phenolic caps are molded using a thermoset plastic resin. We've selected phenolic as our material of choice for its high overall performance as a closure. When used with Kimble Chase vials, you get an unbeatable combination of performance and value.

Liner Technical Information

Liner Description	Application	Properties
Pulp / vinyl Polyvinyl film adhered to 0.035" pulpboard	General purpose	• Good chemical resistance to mild acids, alkalis, alcohols, aqueous solutions, oils and solvents • Not recommended for hydrocarbons or bleaches
Tinfoil Foil laminated to paper and bonded to 0.035" pulpboard	General purpose Environmental sampling	• Good barrier • Good resistance to alcohols, hydrocarbons, ketones, oils • Not recommended for acids and alkalis
Solid PE 0.040" polyethylene	General purpose	• Good resistance to acids, alcohols, alkalis, aqueous solutions, oils, solvents • Not recommended for hydrocarbon solvents
PTFE-faced LDPE foam 0.005" PTFE 0.050" LDPE foam	General purpose	• Excellent chemical resistance • Compressible foam for sealability • Poor for organic amines
White rubber 0.050" homogenous white rubber	Hermetic sealing for bio-logicals and other contents requiring sterilization	• Resistant to moisture vapor • Chemical barrier • Autoclavable
Taperseal (cone-shaped) LDPE	Commonly used for liquids, seal is made across the top and the inside diameter of the container	• Excellent sealing ability • Stress crack resistant • Excellent torque retention

Please Note: All caps / liners should be tested to ensure leak and compatibility performance with contents.

We're here to help.

If you don't find what you need, please call for assistance. Our customer service group will be glad to discuss your special requirements.

Call Toll-Free: 888-546-2531

To order, contact your local distributor or the office listed below.
Customer Service Hours: 8 am - 5 pm EST

Tel: 888-546-2531 Ext. 1 (US, toll-free)
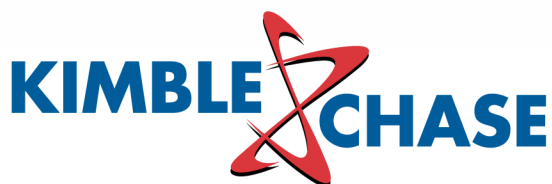   (+1)865-717-2600 Ext. 1 (International)

Fax: 865.354.3853

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Chase Brands**