

Serum Vials & Accessories

some of... Chromalytics... more popular Items

13mm and 20mm Crimp Top Vials

CTSC-10V-20T-22D45H 198ea per slab also 2.5, 4.5, 7.5, 20/23, 30, 50, 100ml
 CTSA-13V-20T-24D49H 155ea per slab Slab Qtys vary with size
 CTSC-20V-20T-26D66H 85ea per slab **Clear** . . . some **Amber**
 CTSA-23V-20T-29D60HTP 113ea per slab

we do NOT split slabs



Crimp Top Caps

13 and 20mm

Plain Aluminium Centre Tear-out :

CT-20CTO-Crimp-X

FlipOff Crimp Tops

many Colors -X
ASK !

2 Types - Plain Color Cap CT-20KFO-Crimp-X

CT-20WPFO-Crimp-X ("FLIP OFF")



Gray Rubber Stoppers

Chlorobutyl Rubber CT-20BNRB-C

13 and 20mm
RoundBottom
also 2-leg freeze dry



Crimping & Decapping Tools

Hand Crimper CT-CRIMP-20S
CT-CRIMP-20FO

Electronic Crimper

Bench Top Crimper

Pneumatic Crimper



Dispensers

Syringe Dispenser CT-FDS-10

BottleTop Dispenser
10ml BTD-3

also 2.5, 5, 10, 30ml



Filtration

Syringe Filter

Nylon, PVDF, PTFE, PES
0.22 and 0.45um
Sterile / Non-sterile
13, 25mm



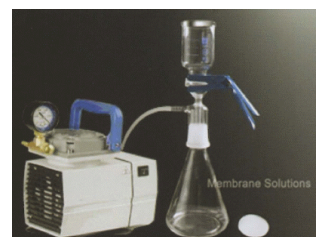
Membrane Filters



Nylon, PVDF, PTFE, PES, Glass Fibre
0.22 and 0.45um

Filtration Equipment

Glass Vacuum System
Hand VAC Pumps



†!Á!æ•Á^ÁFE

HROMalytic +61(0)3 9762 2034
ECHnology Pty Ltd

Australian Distributors
Importers & Manufacturers
www.chromtech.net.au

12/13

Website NEW : www.chromalytic.com.au E-mail : info@chromtech.net.au Tel: 03 9762 2034 . . . in AUSTRALIA

13 & 20mm Glass Serum Vial Caps

/ 2013 - Chromalytic

see Updated WPFO Range 2011 page 2

Centre TearOut

CT-13CTO-X
CT-20CTO-X

\$0.15 each

YES in Stock Melb
X=Color (specify)



FLIP Off

CT-13WPFO-X
CT-20WPFO-X

\$0.24 each

YES in Stock Melb
X=Color (specify)
"FLIP OFF" on lid



CT-13KFO-X
CT-20KFO-X

\$0.18 each

YES in Stock Melb
X=Color (specify)
Plain Finish lid



Most Caps : Styles
& Colors
kept in Stock Melb !

20mm Side TearOut Caps (Plain)

CT-20STO-X

limited range of colors

32mm PLAIN Caps CT-32CTO-CRIMP-Nat

32mm Stoppers CT-BNRB

32mm 100ml Glass Bottles CTSC-100V-32T

Chlorbutyl Rubber Stoppers



13 & 20mm
Round Bottom

CT-13BNRB-C
CT-20BNRB-C

13 & 20mm
2-Legged
Lyophilisation
Freeze-Dry Type

CT-13BNRB-FD1
CT-20BNRB-FD1

Caps and Stoppers available for both
13mm and 20mm Diameter Neck Vials

FlipOff design exposed rubber
through Open-Hole in Aluminium
underlying Cap

Older Style - Butyl Rubber CT-20BNRB
still Available (softer Rubber)

OPTIONS . . .

Red 20mm RB Stoppers

CT-20BNRB-R

Silicone Coated Butyl Stopper

CT-20BNRB-C

†!AU!&•A^A!FE

13 & 20mm WP FlipOff Caps

2013

5""7 c`cf g""jghYX""""""b'gltW`AYV'cf'a U`&k YY_g'Zf'6 UW_cfXYfg

20mm

CT-20WPFO-Crimp-X

X : Color

						
Red	Dark Blue	Royal Blue	Light Blue	Green	Willow Green	Clear
						
Black	Orange	Light Orange	Purple	Yellow	Faded Lt Green	Dark Gray
						
Gloss Pink	Burgundy	Magenta	White	Misty Gray	Lavender	Peach

13mm

CT-13WPFO-Crimp-X

						
Red	White	Blue	Dark Blue	Green	Yellow	Orange
						
Purple	Dark Gray	Lt Blue	Black	Magenta	Pink	

†!Á!B!•Á^^Á!FE



Hand Crimper

- High quality construction for durability and long life.
 - Consistent dependable performance.
 - Smooth simple operation.
 - Painted, plated or coated for maximum corrosion resistance
 - Less expensive than competitive models.
 - All parts that contact the container cap are **electrodeless nickel-plated** or **stainless steel**. The benefits include high corrosion resistance and good lubricity have been proven through extensive laboratory and field testing.
 - Textured handle surfaces provide a better grip than smooth painted models. The powder coating used to paint the handles is durable and scratch resistant. The coating process is environmentally clean—no toxic fumes or hazardous wastes are generated. The handle clip, pins and screws are made of corrosion resistant stainless steel.
- Sizes** : 20mm, 13,, 11mm, 8mm for Standard Caps and Plastic Flipoff Caps.

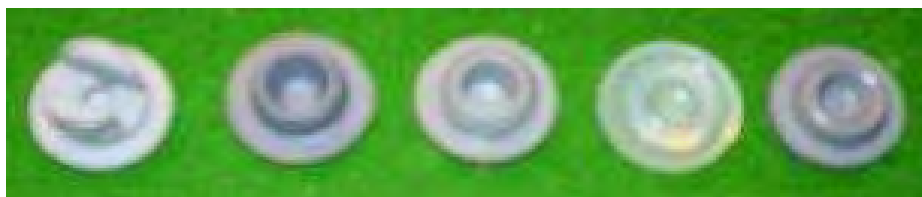
Vial Caps

- 13mm, 20mm Color Coded
- CentreTearOut Option Side TearOut (to order)
- Plastic FlipOff



Serum Stoppers

- 13mm, 20mm
- 2-Legged Freeze
- Chlorobutyl Rubber
- Butyl Rubber
- Silicone Rubber
- Teflon Coated



Vial Kit : Slab of Vials + Crimper + Caps + Stoppers SPECIAL Discount - **20% off List Price**
Or if Order value >\$400 NEW 2013

Vial Accessories

- Syringe Filters
- Filter Funnels, Flasks (& Vacuum Pump)
- Membrane Filters
- Stoppers
- Caps
- Syringe Dispenser
- Hand Crimper also
- Bench Crimper
- Pneumatic Crimper



12/13



CatNo	Description	Liquid in vial	Slab Size	Slab Price	Each Price
CTSCW-50V-20T-43D73H	50ml Clear glass type (2)Vial Sulphur Teated and Washed 20mm Crimp Finish	50ml	66	\$50.82	\$0.77
CTSC-23V-20T-29D60H	23ml Clear Glass Schott Vial 20mm Crimp Finish	20ml	113	\$74.58	\$0.66
CTSC-20V-20T-26D66H	20ml Clear Glass Schott Vial 20mm Crimp Finish	20ml	145	\$95.70	\$0.66
CTSC-13V-20T-24D49H	13ml Clear Glass Schott Vial 20mm Crimp Finish	10ml	155	\$102.30	\$0.66
CTSC-13V-13T-24D50H	13ml Clear Glass Schott Vial 13mm Crimp Finish	10ml	165	\$108.90	\$0.66
CTSC-10V-20T-22D45H	10ml Clear Glass Schott Vial 20mm Crimp Finish	10ml	198	\$130.68	\$0.66
CTSC-10V-13T-22D45H	10ml Clear Glass Schott Vial 13mm Crimp Finish	10ml	198	\$130.68	\$0.66
CTSC-7V-20T-22D38H	7ml Clear Glass Schott Vial 20mm Crimp Finish	7ml	150	\$90.00	\$0.60
CTSC-4V-13T-16D38H	4ml Clear Glass Schott Vial 13mm Crimp Finish	4ml	368	\$143.52	\$0.39
CTSC-2V-13T-15D32H	2ml Clear Glass Schott Vial 13mm Crimp Finish	2ml	371	\$144.69	\$0.39



Chromalytic Amber Vials
(from left to right)

CatNo	Description	Liquid in vial	Slab Size	Slab Price	Each Price
CTSCW-100V-20T-52D94H	100ml Amber glass type (2) Vial Sulphur Teated and Washed 20mm Crimp Finish	100ml	66	\$58.08	\$1.05
CTSA-23V-20T-29D60H	23ml Amber Glass Schott Vial 20mm Crimp Finish	20ml	113	94.92	\$0.88
CTSA-13V-20T-24D49H	13ml Amber Glass Schott Vial 20mm Crimp Finish	10ml	155	\$102.30	\$0.77

Other Amber Vials Not Necessarily Stocked
(refer to clear vials for similar vial image)

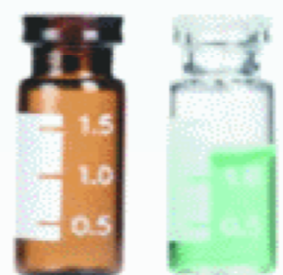
CatNo	Description	Liquid in vial	Slab Size	Slab Price	Each Price
CTSAW-50V-20T-43D73H	50ml Amber glass type (2)Vial Sulphur Teated and Washed 20mm Crimp Finish	50ml	112	Call	Call
CTSA-7V-20T-22D38H	7ml Amber Glass Schott Vial 20mm Crimp Finish	7ml	241	Call	Call
CTSA-2V-13T-15D32H	2ml Amber Glass Schott Vial 13mm Crimp Finish	2ml	371	Call	Call

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VIALs & BOTTLES : Products Catalog

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SCREW and Crimp Caps



Clear Vials



50/20

23/20

20/20

13/20
4/13

13/10
2/13

10/20

10/13

7/20

Nominal Volume (ml) / actual Liquid Volume / Neck Size(mm) - Stoppers shown in place No Alum Caps shown

Vials supplied Clean - Shrink-wrapped in slabs (**NOT Sterile**) and Empty

Amber Vials



100/20

23/20

13/20

Stoppers 20mm (and 13mm)



CT-20BNRB-S

CT-20BNRB-2L

Round Bottom

2-Leg Freeze Dry

Standard(\$0.20ea) Custom

†!Á!â•Á^!Æ

HROMalytic +61(0)3 9762 2034
ECHnology Pty Ltd

Australian Distributors
Importers & Manufacturers
www.chromtech.net.au

12/13

Website NEW : www.chromalytic.com.au E-mail : info@chromtech.net.au Tel: 03 9762 2034 . . . in AUSTRALIA



- High quality construction for durability and long life
- Consistent, dependable performance
- Smooth, simple operation
- Painted, plated or coated for maximum corrosion resistance
- Less expensive than competitive models

Textured handle surfaces provide a better grip than smooth-painted models. The powder coating used to "paint" Kebby crimper handles is durable and scratch-resistant. (The coating process is environmentally clean - no toxic fumes or hazardous wastes are generated.)

Our handle clip, as well as other pins, clips and screws, are made of corrosion-resistant stainless steel.

(\$259.00

Decappers 20mm CT-20Decapper(\$259) Plier Decapper CT-20Decap-PL (\$65.00)

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Tel : 03 9762 2034 Website : www.chromtech.com.au/vials.htm

CrimpTop Vials	Finish	To Order	Price	No/ Slab	Kg
Vials - Clear	Volume mL	Cat.# +DIM in mm	\$		
	2	13 CTSC-2V-13T	0.39	371	
	4	13 CTSC-4V-13T-16D38H	0.39	368	
	7	20 CTSC-7V-20T-22D38H	0.60		
	10	13 CTSC-10V-13T-22D45H	0.66	198	1.8
	13	13 CTSC-10V-20T-22D45H	0.56	324	3.2
		13 CTSC-13V-13T-24D50H	0.66	155	
		20 CTSC-13V-20T-24D49H	0.66	155	
	20	20 CTSC-20V-20T-26D66H	0.77		
	50	20 CTSC-50V-20T-43D73H	0.77	66	
	100	20 CTSCW-100V-20T-52D95H	0.92		
		32 CTSC-100V-20T-49D103H	1.10		
Vials - Amber	2	13 CTSA-2V-13T-15D32H	0.42		
	7	20 CTSA-7V-20T-22D38H	0.66		
	13	20 CTSA-13V-20T-24D50HTP	0.77	145	1.8
	23	20 CTSA-23V-20T-29D60HTP	0.85	113	
	27	20 CTSA-27V-20T-32D57H	0.85		
	50	20 CTSAW-50V-20T-43D73H	0.90	66	
Hand Crimper	Standard	13 CT-Crimp-13S	259.00		
	FlipOff	13 CT-Crimp-13FO	259.00		
	Standard	20 CT-Crimp-20S	259.00		
	FlipOff	20 CT-Crimp-20FO	259.00		
	Standard	32 CT-Crimp-32S	327.00		
Bench Crimper		13,20,32 Screw-on Heads	Ask		8
Pneumatic Crimper		13,20,32 Screw-on Heads	Ask		10
Decappers	Hand	13,20	G J EEC		
	Plier Type	13,20	I I EEC		
Caps					
Plain CTO		13 CT-13CTO-Crimp-X	EEI		
X=Color (from 8)		20 CT-20CTO-Crimp-X	EEI		
		32 CT-32CTO-Crimp-Nat	EEI		
Plain FlipOFF		13 CT-13KFO-Crimp-X	EEI		
X=Color (from 9)		20 CT-20KFO-Crimp-X	EEI		
"FLIPOFF" FO		13 CT-13WPFO-Crimp-X	EEI		
X=Color (from 18)		20 CT-20WPFO-Crimp-X	EEI		
Stoppers					
RoundBottom	chlorobutyl	13mm CT-13BNRB-C	EEI		
	chlorobutyl	20mm CT-20BNRB-C	EEI		
	butyl	32mm CT-32BNRB	EEI		
2-Leg FreezeDry	chlorobutyl	13mm CT-13BNFD-C	EEI		
	chlorobutyl	20mm CT-20BNFD-C	EEI		
10ml Syringe Dispenser	10ml	CT-FSD-10	I I EEC		
Bottle Top Dispenser	10ml	BTD-3	FJ I EEC		
Bottles GL-45 Thread	E 250	GL-45 CG-GBGL45-250	10.00		
	E 500	CG-GBGL45-500	18.00		
	E 1000	CG-GBGL45-1000	28.00		
	2000	CG-GBGL45-2000-SC	95.00		

Syringe Filters	25mm (13mm)	PolyP Nylon PES PVDF Teflon
Multi-Stack	25mm 10um glass 1um PP 0.7um 0.45 or 0.22um	as above
Whatman	GD/X PVDF 0.45 or 0.22um	
Membrane Filter	47mm	PolyP Nylon PES PVDF Teflon
MS Bottle Top Filter	47mm Plastic 250/500ml	Nylon PVDF
Vacuum Filter (Glass)	250/1000ml 500/2000ml	47mm Disks
Vacuum Pump	Motorised Hand	various \$135

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Freight: (Courier Only to street address) Contact Tel No reured Melb Metro: \$15 per 5kg

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Conditions

Signature Required

Website www.chromtech.net.au

NEW : www.chromalytic.com.au

NO CLAIMS!

Glass Breakage at Customers Risk / Customers responsibility once Order in hands of Courier

VIALS

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RESTEK

CHROMalytic +61(0)3 9762 2034
ECHnology Pty Ltd

Australian Distributors
Importers & Manufacturers
www.chromtech.net.au

11/12

Siltek® Coated Vials

For a highly inert surface, we recommend Siltek® deactivation for your vials:

- Maximizes inertness, minimizes sample breakdown—ideal for difficult matrices and reactive compounds.
- Inert over a wide sample pH range.
- Low bleed.
- Thermally stable.

Siltek® deactivation produces a highly inert glass surface that features high temperature stability, extreme durability, and low bleed. Try Siltek® deactivated vials for better recovery of sample analytes.

For Siltek® vials, add the corresponding suffix number to the vial catalog number.

Qty.	Siltek Deactivation	
100-pk.	-222	addl. cost
1000-pk.	-223	addl. cost

**Septum Selection Guide**

Materials	Compatibility	Incompatibility	Resealability	Max. Temp.
Red Rubber (synthetic)	acetone, alcohols, DMF, DMSO, ether	ACN, benzene, chloroform, heptane, hexane, pyridine, THF, toluene	very good	90 °C
PTFE/ Natural Rubber	PTFE: resistance until punctured Rubber: acetone, ACN, alcohols, diethylamine, DMF, DMSO, phenol	aromatics, carbon disulfide, chlorinated solvents, hydrocarbon solvents	very good	90 °C
PTFE/Silicone PTFE/Silicone/PTFE	PTFE: resistance until punctured Silicone: acetone, alcohols, DMF, DMSO, ether	ACN, benzene, chloroform, heptane, hexane, pyridine, THF, toluene	very good	205 °C
Polyethylene	Good resistance to solvents and weak acids or bases. Unreactive with most chemicals, but some solvents cause softening or swelling.	hydrocarbon solvents	one-time use	175 °C
Gray Chlorobutyl	acids or bases, water solutions, buffer solutions, oxygenated solvents, vegetable oils	aliphatic or aromatic hydrocarbons, halogenated solvents, mineral oils, strong acids	very good	100 °C

Abbreviations: ACN = acetonitrile, DMF = dimethylformamide, DMSO = dimethylsulfoxide, THF = tetrahydrofuran

NOTE: This chemical resistance chart is intended only as a guideline. It does not cover all compounds or all solvents. Tests were done at room temperature on pure, single solvents, and there is no data on solvent combinations. Always confirm the compatibility of your vial, closure, and chemical combination prior to sample preparations.

instrument reference**For 2.0 mL, 11 mm Crimp-Top Vials**

The following instruments are compatible with 2.0 mL, 11 mm crimp-top vials. For further information or questions, please contact your Restek sales representative or technical service.

Manufacturer	Instrument/Model #	Manufacturer	Instrument/Model #	Manufacturer	Instrument/Model #
A.I.M.	CPS -100, 200	Gilson	231 XL, 232 XL, 233 XL, Asted	Sedere	
A.I.	42 vial tray		XL, Aspec XL	Shimadzu	SIL-10A, 10Ai, 10Axi, AOC 20i
Agilent	1042, 1050, 1080, 1082, 1084, 1090, 1100, 5890, 6850, 6890, 7670A, 7671A, 7672, 7673A/B, 7683, 7890, 8042	Gynkotek	Gina, others	Siemens	AS 32, AS 200
Alcott	738	Hitachi	AS-2000, AS-6000	Spark Holland	SPH 125, Marathon, Promis, Triathlon, Midas
Alltech	570, 580 (standard tray)	IBM		Spectra-Physics	8875, 8880
Altex		ICI	other than LC 1600	Talbot	
AMS	42	Infocroma		Thermo Scientific	TRACE GC 2000, AS2000
Antek	736 Unisampler, 738	Jasco	851-AS, AS-950	TosoHaas	TSK-6080, AS-8010, AS-8020
ASC		Kipp	360	Tosca 1	
Carlo Erba/	42 vial tray	Kontron	Marathon, Promis, other than 713	Tracor	770, 771, 772
Fisons	AS 800	LDC	CTC A200S, CTC A105S	TSP	8875, 8880, AS 100/1000, AS 300/3000
Carnegie	CMA-250/200	L.E.A.P. Technologies		Unicam	4710, LC-XP 4247
Chrompack	CP 9000 GC Series	Magnus Scientific		United Technologies	
CTC	CTC A105S	PerkinElmer	Autosystem GC, AI-1, Integral 4000, ISS 100, ISS 200, LC 600 42 vial tray, 420/B, 4900	Varian/Rainin	Dynamax AI-1A, AI-200, Dynamax AI-3
Dani	ALS 39.80, 86.80	Pharmacia LKB	2157-010	Varian	8100/8200, 9100/9090/9095, Marathon
Delsi		Precision Sampling	GC111, GC 311, LC 241-60	Waters	Alliance 2690
Dynatech	42 vial tray	Phillips	LC-XP 4247, 4710		
Fisons	42 vial tray, AS800	Polymer-Labs	GPC 110/210		
GBC		Pye	LCXP		
Gerstel		S.G.E.	M280D		

Vial Size Quick Reference Chart

All vials pictured are actual size, with description, Restek catalog number, and page number for quick reference.

WISP Vials

4.0 mL Screw-Thread Step Vial



24654, 24655
24656, 24657
Page 362

4.0 mL Clear Crimp-Top



24658, 24659
Page 361

700 µL Limited Volume



24680,
24681
Page 362

96 Style



24662, 24663,
24664, 24665,
24678, 24679
Page 362

Headspace Vials

10 mL Clear Flat Bottom



24683,
24684
Page 363

10 mL Clear Rounded Bottom



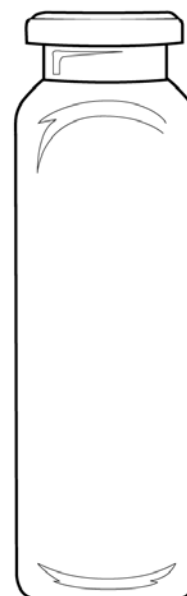
21164,
21165
Page 363

20 mL Clear Flat Bottom



24685,
24686
Page 363

20 mL Clear Rounded Bottom



21162,
21163
Page 363

Vial Size Quick Reference Chart

All vials pictured are actual size, with description, Restek catalog number, and page number for quick reference.

Limited Volume Inserts

250 μ L Big
Mouth Insert



24516,
21779
Pages 356, 361

250 μ L Glass
Flat Bottom



24510
Page 360

350 μ L Glass
Flat Bottom Inserts
w/ID Ring



21780,
24517
Pages
356, 361



24692,
24693
Pages
356, 361

500 μ L Glass
WISP
Flat Bottom



21787, 21788
Page 362

100 μ L Glass or
Polypropylene
w/ Polypropylene
Bottom Spring



24508, 21775
24512
Page 360

250 μ L Glass
or Polypropylene
w/ Bottom Spring



21776, 21777
Pages 356, 361, 362
24518
Page 356

8 mm Screw-Thread Vials

2.0 mL Clear or
Amber w/ White Graduated
Marking Spot



24619, 24620,
24621, 24622
Page 359

9 mm Short-Cap Vials

2.0 mL Clear or
Amber w/White Graduated
Marking Spot



21154*, 21155*
*w/out white graduated marking spot
21140, 21141
21142, 21143
Page 358

10 mm Screw-Thread Vials

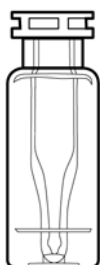
2.0 mL Big Mouth Step
Clear or Amber



24626, 24627,
24628, 24629
Page 360

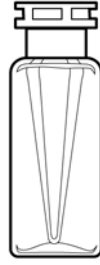
11 mm Crimp-Top Vials

Limited Volume 100 μ L
Glass Insert, Clear Plastic Vial



24653
Page 356

Limited Volume
100 μ L Polypropylene



24651, 24652
Page 356

2.0 mL Snap Seal Style
Clear or Amber Glass



21152, 21153, 24383, 24384, 24385, 24386
Page 356



24385

24383



21724

also **available**

See **page 366** for crimpers and decappers.



24673



21776

24518A

24692



24651

2.0 mL Crimp-Top Vials, 12 x 32 mm, 11 mm

White graduated marking spots are a standard feature unless otherwise noted.

2.0 mL Crimp-Top Vials, 12 x 32 mm, 11 mm

Description	Volume	Color	Material	100-pk.	1000-pk.
Vial w/White Graduated Marking Spot	2.0mL	Clear	Glass	24383	\$18.50 24384
Vial w/White Graduated Marking Spot	2.0mL	Amber	Glass	24385	\$19.50 24386
Vial without Graduated Marking Spot	2.0mL	Clear	Glass	21152	\$16.50 21153

2.0 mL, 11 mm Aluminum Crimp Seals with Septa

Seal Color	Septa Material	100-pk.	500-pk.	1000-pk.
Silver	PTFE/Natural Rubber	21174	\$13.50 —	21175
Blue	PTFE/Red Rubber	24351	\$19.50 —	24352
Green	PTFE/Red Rubber	24353	\$19.50 —	24354
Red	PTFE/Red Rubber	24355	\$19.50 —	24356
Yellow	PTFE/Red Rubber	24357	\$19.50 —	24358
Mixed	PTFE/Rubber	—	21724 \$50	—
Silver	PTFE/Silicone	24359	\$25.50 —	24360
Blue	PTFE/Silicone	24361	\$28 —	24362
Green	PTFE/Silicone	24363	\$28 —	24364
Red	PTFE/Silicone	24365	\$28 —	24366
Yellow	PTFE/Silicone	24367	\$28 —	24368
Mixed	PTFE/Silicone	—	21725 \$119.50	—
Silver	PTFE/Silicone/PTFE	24369	\$28 —	24370

2.0 mL Crimp Vial Convenience Kits (Vials, Caps, & Septa)

Vials packaged in a clear-lid tray. Caps with septa packaged in a plastic bag.

Description	100-pk.	1000-pk.
Clear 2.0mL Vial, Deactivated, Silver Seal, PTFE/Natural Rubber Septa	24671 \$44	24672
Amber 2.0mL Vial, Deactivated, Silver Seal, PTFE/Natural Rubber Septa	24673 \$44	24674
Clear 2.0mL Vial, Untreated, Silver Seal, PTFE/Natural Rubber Septa	21196 \$34	21197
Amber 2.0mL Vial, Untreated, Silver Seal, PTFE/Natural Rubber Septa	21198 \$34	21199
Clear 2.0mL Vial, Untreated, Silver Seal, PTFE/Silicone Septa	24646 \$40	24647
Amber 2.0mL Vial, Untreated, Silver Seal, PTFE/Silicone Septa	24648 \$40	24649

Inserts

for 2.0 mL, 11 mm Crimp-Top & 2.0 mL, 9 mm Short-Cap, Screw-Thread Vials

Description	Volume	Material	100-pk.	1000-pk.
Big Mouth Insert w/Bottom Spring	50µL	Glass	24513 \$48	21782
Big Mouth Insert w/Bottom Spring	250µL	Glass	21776 \$82	21777
Big Mouth Insert w/Glass Flange (Step Design)*	250µL	Glass	24516 \$71.50	21779
Insert, Flat Bottom	350µL	Glass	21780 \$21.50	24517
Insert, Flat Bottom w/ID Ring	350µL	Glass	24692 \$23.50	24693
Big Mouth Insert w/Bottom Spring	250µL	Polypropylene	24518 \$18.50	—
Big Mouth Insert w/Bottom Spring & Graduated Markings	250µL	Polypropylene	24518A \$24.50	—
Big Mouth Insert, Top Flange	250µL	Polypropylene	24519 \$11.50	—
Big Mouth Insert, No Spring	250µL	Polypropylene	24520 \$11.50	—

*Not to be used with 9mm screw-thread vials.

2.0 mL Crimp-Top Vial with 100 µL Insert

- Plastic vial.
- Choice of glass or polypropylene insert.

Description	100-pk.	1000-pk.
Clear Plastic Vial w/100µL Polypropylene Insert	24651 \$21.50	24652
Clear Plastic Vial w/100µL Glass Insert	24653 \$149	—

2.0 mL, 11 mm Poly Crimp Seal Caps: Snap-on or Crimp

The patented Poly Crimp Seal is versatile, working as either a snap-on or crimp-top cap. Simply use a standard crimping tool to secure the Poly Crimp Seal onto any crimp-top vial. It's that easy!

- Works on any crimp style vial.
- Crimps smoothly and easily—no more sharp edges from an aluminum crimp cap.
- Easily decaps using standard decapping tools.
- Eliminates inconsistent sealing that results from improper crimping.
- Unique design holds the septum firmly in place.
- Provides better seal than snap caps.*
- Meets CONEG standards. The Poly Crimp Seal is free of heavy metals and is easily disposed of or incinerated.



Seal Color	Liner Material	100-pk.		400-pk.		1000-pk.	
Clear	PTFE/Butyl Rubber	24433	\$18.50	—	—	24434	—
Clear	PTFE/Silicone	24443	\$30	—	—	24444	—
Blue	PTFE/Silicone	24445	\$30	—	—	24446	—
Clear	PTFE/Silicone/PTFE	24453	\$30	—	—	24454	—
Blue	PTFE/Silicone/PTFE	24455	\$35	—	—	24456	—
Mixed	PTFE/Silicone/PTFE	—	—	21728	\$93	—	—

*Based on continual use for 3–4 days.

tech tip

Compatibility concerns?

Refer to the Septum Selection Guide on page 353.

2.0 mL, 11 mm GC Snap Ring Cap with Septum

- Snaps on any crimp-style vial.
- Clear polypropylene cap provides a tighter seal than standard Snap Ring Cap.
- Good for pressurized injection systems.
- Save money! Use this snap cap when you don't need to crimp.

Description	Liner/Septa Material	100-pk.		1000-pk.	
Polypropylene Snap-Top Cap w/Liner	PTFE, 10mil	21729	\$20.50	21730	—
Polypropylene Snap-Top Cap w/Septum	PTFE/Butyl Rubber	21731	\$23.50	21732	—
Polypropylene Snap-Top Cap w/Septum	PTFE/Silicone	21733	\$30	21734	—



Certified Autosampler Vial Kits

Certified Vials, 2.0 mL Screw-Thread Vials

National Scientific's certified vial kits provide the extra assurance that time after time the vial you use conforms to the rigorous manufacturing standards of National Scientific. These certified vial kits include your choice of vials and closures, conveniently packaged in benchtop storage compartments.

- Certificates enclosed with each kit.
- Vials of clear or amber borosilicate glass, with ID marking spots.
- Closures with pre-inserted septa.
- Each kit sealed for integrity.

Certification Parameters Include:

Vial Dimensions:	height, diameter, bottom thickness, neck length, thread profile, and annealing
Cap/Septum:	diameter, height, thread integrity, center flash, septa insertion, sealing/resealing test, residue by headspace GC, and extractables
Chemical Test:	HPLC Test: nonvolatile residue GC Test: volatile residue

Description	100-pk.
Assembled Clear 2.0mL Vial w/Marking Spot, Cap, Bonded PTFE/Silicone Slit Septa	22789
Assembled Amber 2.0mL Vial w/Marking Spot, Cap, Bonded PTFE/Silicone Slit Septa	22788
Unassembled Clear 2.0mL Vial w/Marking Spot, Cap, Bonded PTFE/Silicone Septa	22792
Unassembled Amber 2.0mL Vial w/Marking Spot, Cap, Bonded PTFE/Silicone Septa	22790
Unassembled Clear 2.0mL High Recovery Vial w/Marking Spot, Cap, Bonded PTFE/Silicone Slit Septa	22793
Unassembled Amber 2.0mL Vial w/Marking Spot, Cap, Bonded PTFE/Silicone Slit Septa	22791



22788



22792

Agilent Compatible!



21140

Ideal for Agilent 7673 & other autosamplers that process 12 x 32 mm crimp-top vials.



also available

Limited Volume Inserts

for 2.0 mL, 9mm Short-Cap, Screw-Thread Vials
See page 356.

2.0 mL, 9 mm Short-Cap, Screw-Thread Vials, 12 x 32 mm

- Fit all 2.0 mL, 12 x 32 mm, crimp-top vial based autosamplers.
- Shorter screw cap allows the robotic autosampler to function properly.
- Wider opening prevents syringe problems.
- Dimensions are effectively identical to the crimp-top vial.
- Variety of colors and liner material.

Are you tired of dealing with crimp-top vials, but worried about using screw-thread vials with your autosampler? If you want the performance of a crimp-top vial with the convenience of a screw-thread vial, these vials are the answer for you.

2.0 mL, 9 mm Short-Cap, Screw-Thread Vials (vial only)

Description	Volume	Color	100-pk.	1000-pk.
Short-Cap Vial w/White Graduated Marking Spot	2.0mL	Clear	21140	21141
Short-Cap Vial w/White Graduated Marking Spot	2.0mL	Amber	21142	21143
Short-Cap Vial without Graduated Marking Spot	2.0mL	Clear	21154	21155

2.0 mL, 9 mm Short-Cap, Screw-Vial Closures (Polypropylene, preassembled)

Cap Color	Liner Material	100-pk.	500-pk.	1000-pk.
Blue	PTFE/Red Rubber	24473	—	24474 \$170.50
Mixed	PTFE/Red Rubber	—	24668	—
Blue	PTFE/Silicone	24485	—	24486
Green	PTFE/Silicone	24487	—	24488
Yellow	PTFE/Silicone	24493	—	24494
Mixed	PTFE/Silicone	—	24669	—
Blue	PTFE/Silicone/PTFE	24497	—	24498
Black	PTFE/Silicone/PTFE	24495	—	24496
Natural	PTFE/Silicone/PTFE	24501	—	24502
Red	PTFE/Silicone/PTFE	24503	—	24504
Yellow	PTFE/Silicone/PTFE	24505	—	24506
Mixed	PTFE/Silicone/PTFE	—	24670	—

instrument reference

For 2.0 mL, 9 mm Short-Cap, Screw-Thread Vials

The following instruments are compatible with 2.0 mL, 9 mm short-cap, screw-thread vials. For further information or questions, please contact your Restek sales representative or technical service.

Manufacturer	Instrument/Model #	Manufacturer	Instrument/Model #
Carlo Erb/Fisons	AS 800	L.E.A.P. Technologies	CTC A200S
Dani	ALS 39.80, 86.80	PerkinElmer	AI-1, ISS 100, ISS 200, LC 600 42 vial tray
Dynatech	42 vial tray, LC2000	Shimadzu	SIL-10A, 10Ai, 10Axi
Gilson	231 XL, 232 XL, 233 XL, Aspec XL	Spark Holland	SPH 125, Marathon, Promis
Agilent	1042, 1050, 1080, 1082, 1084, 1090, 1100, 5890, 6890, 7670A, 7671A, 7672, 7673A/B, 7683, 7890, 8042	Spectra-Physics	8875, 8880
Hitachi	AS-2000, AS-6000	Thermo Scientific	TRACE GC 2000, AS2000
LDC	Marathon, Promis	Varian	8100/8200, Marathon
		Waters	Alliance 2690

2.0 mL Sample Vial Racks

- Racks feature alphanumeric indexing for easier vial identification.
- Racks can be stacked for efficient storage.
- Fits most 2.0 mL, 12 x 32 mm vials (vials sold separately).

Description	Capacity	qty.	cat.#	price	qty.	cat.#	price
Polypropylene Storage Rack for 12 x 32mm Vials	50 vials, 5 x 10	ea.	22856		5-pk.	22857	



2.0 mL Screw-Thread Vials, 12 x 32 mm, 8 mm/425 Thread

- Fit all 2.0 mL, 12 x 32 mm, screw-thread 8 mm/425 vial-based autosamplers.
- Vaporization is minimized over shorter vials.

2.0 mL, 8 mm Screw-Thread Vials (vial only)

Description	Volume	Color	100-pk.	1000-pk.
Vial w/White Graduated Marking Spot	2.0mL	Clear	24619	24620
Vial w/White Graduated Marking Spot	2.0mL	Amber	24621	24622

2.0 mL, 8 mm Caps and Septa (preassembled)

Cap Color	Septa Material	100-pk.	1000-pk.
Black	Red PTFE/Silicone, 0.065"	21149	21720
Black Top Hat	PTFE/Silicone	21721	21722

Caps & Septa

for 2.0 mL, 8 mm Screw-Thread Vials

Description	Septa Material	100-pk.	1000-pk.
Black Polypropylene, Open-Hole Caps		21176	21177
Septa, 8mm x 0.045"	Red PTFE/Silicone	21178	21179
Septa, 8mm x 0.065"	Red PTFE/White Silicone	21795	21147

2.0 mL Autosampler Vial Convenience Kits

- Vials packaged in a clear-lid tray. Preassembled caps with septa packaged separately in a plastic bag.
- Black polypropylene open-hole caps and 8 mm red PTFE/silicone septa, 0.065".

Description	100-pk.	1000-pk.
Clear 2.0mL Vial, Silcote CL7-Deactivated, Black Cap, Red PTFE/Silicone Septa, 0.065"	24638	24639
Amber 2.0mL Vial, Silcote CL7-Deactivated, Black Cap, Red PTFE/Silicone Septa, 0.065"	24640	24641
Clear 2.0mL Vial, Untreated, Black Cap, Red PTFE/Silicone Septa, 0.065"	21192	21193
Amber 2.0mL Vial, Untreated, Black Cap, Red PTFE/Silicone Septa, 0.065"	21194	21195

2.0 mL Preassembled Vial Kits

8 mm/425 Screw-Thread, Unmarked Vials, Septa, and Caps

Caps attached to vials.

Description	100-pk.	1000-pk.
Clear 2.0mL Vial, Black Cap, Red PTFE/Silicone Septa, 0.045"	24630	24631
Amber 2.0mL Vial, Black Cap, Red PTFE/Silicone Septa, 0.045"	24632	24633
Clear 2.0mL Vial, Black Cap, Red PTFE/Silicone Septa, 0.065"	24634	24635
Amber 2.0mL Vial, Black Cap, Red PTFE/Silicone Septa, 0.065"	24636	24637

*Best fit for Shimadzu.

**Best fit for Varian.



instrument reference

For 2.0 mL, 8 mm Screw-Thread Vials

The following instruments are compatible with 2.0 mL, 8 mm screw-thread vials. For further information or questions, please contact your Restek sales representative or technical service.

Manufacturer	Instrument/Model #	Manufacturer	Instrument/Model #
A.I.M.	CPS-100, 200	PerkinElmer	Autosystem GC, 420/B, 4900
Alcott	738	Pharmacia LKB	2157-010
Alltech	570	Precision Sampling	GC111, GC 311, LC241-60
ASC		Phillips	LC-XP, 4247, 4710
Beckman	501, 502, 507	S.G.E.	M280D
Carlo Erba/Fisons	AS 800, 8000	Sedere	
Dani	ALS 39.80, 86.80	Shimadzu	AOC-8B/9, SIL-6A, AOC14/1400, AOC-17, SIL-6B, -9A, -8A, SIL-10A, 10Ai, 10AxL
Dynatech	42 vial tray	Spark Holland	Marathon, Promis, Tiathalon, Midas
Gilson	231XL, 232XL, 233XL, Asted XL, Aspec XL	Spectra-Physics	8875, 8880
Gynkoteck	Gina, others	Talbot	
Hitachi	S6551, L-7200, L-7250	TOA	ICA5450
IBM		TosoHaas	TSK-6080, AS-8010, AS-8020
ICI	All except LC1600	TSP	8875, 8880, AS100/1000, AS300/3000
Infochroma		Unicam	4700LC, LC-XP, 4247
Jasco	851-AS, AS-950, LC800 & 900 series	United Technologies	
Kipp		Varian/Rainin	Dynamax AI-3AI-IA, AI-2W
Kontron	360, 460	Varian	8100/8200, 8035, 8000 Series, Marathon, 8055, 8085, 9100/9090/9095, 3800 GC
LDC	All except 713	Waters	Alliance 2690
L.E.A.P. Technologies	CTC A200S		
Magnus Scientific			



Inserts for 2.0 mL, 8 mm Screw-Thread Vials

Description	Volume	Material	100-pk.	1000-pk.
Insert w/Polypropylene Bottom Spring	100µL	Glass	24508	21775
Insert, Flat Bottom	250µL	Glass	—	24510
Insert, Flat Bottom w/ID Ring	250µL	Glass	—	24691
Insert, No Spring	100µL	Polypropylene	24511	—
Insert w/Bottom Spring	100µL	Polypropylene	24512	—

2.0 mL, 8 mm Screw-Thread Vials with 100 µL Insert

- Plastic vials.
- Choice of glass or polypropylene insert.

Description	100-pk.	1000-pk.
Plastic Vial w/100µL Polypropylene Insert	24623	24624
Plastic Vial w/100µL Glass Insert	24625	—

*Amber glass insert/clear plastic vial available on request (1,000-packs only).

2.0 mL Big Mouth Step Design Screw-Thread Vials, 12 x 32 mm, 10 mm/425 Thread

- 40% larger opening than other vials.
- Step profile automatically centers glass flange limited volume inserts.
- Preassembled caps with septa, with or without vials.
- Designed for Waters Alliance® autosamplers.

The Big Mouth Step Vial System has a larger ID than conventional vials and incorporates a neck finish that is uniquely designed to allow the insert to be precisely aligned in the center of the vial. This precise alignment provides maximum sample withdrawal and eliminates any chance of missed injections.

2.0 mL Big Mouth Step Screw-Thread Vials (vial only)

Description	Volume	Color	100-pk.	1000-pk.
Big Mouth Step Vial w/White Graduated Marking Spot	2.0mL	Clear	24626	24627
Big Mouth Step Vial w/White Graduated Marking Spot	2.0mL	Amber	24628	24629

Caps and Septa for 2.0 mL Big Mouth Step Vials

Description	Septa Material	1000-pk.
Caps and Septa, Preassembled	PTFE/Silicone/PTFE, 0.040"	21723
Caps and Septa, Preassembled	Red PTFE/White Silicone, 0.060"	24677
Septa Only	Red PTFE/White Silicone, 0.060"	21148

also available

See **page 361** for preassembled vial kits and limited volume inserts.

tech tip

Compatibility concerns?

Refer to the Septum Selection Guide on page 353.

instrument reference

For 2.0 mL, 10 mm Screw-Thread Vials

The following instruments are compatible with 2.0 mL, 10 mm screw-thread vials. For further information or questions, please contact your Restek sales representative or technical service.

Manufacturer	Instrument/Model #
Alcott	738
Alltech	570
Altex	
ASC	
Beckman	501, 502, 507
L.E.A.P. Technologies	CTC A200S
Shimadzu	SIL-10A, 10Ai, 10AxL, AOC-20i
Varian	8100/8200
Waters	Alliance 2690

Preassembled Vial Kits and Limited Volume Inserts for 2.0 mL Big Mouth Step Design Screw-Thread Vials, 12 x 32 mm, 10 mm/425 Thread

2.0 mL Big Mouth Step Vial Kits w/Black Caps (preassembled)

Caps attached to vials.

Description	100-pk.	1000-pk.
Clear 2.0mL Vial, Black Cap, PTFE/Silicone/Red PTFE Septa, 0.040"	24675	24676
Clear 2.0mL Vial, Black Cap, Red PTFE/Silicone Septa, 0.065"	24642	24643
Amber 2.0mL Vial, Black Cap, Red PTFE/Silicone Septa, 0.065"	24644	24645

Inserts

for 2.0 mL Big Mouth Step Design Screw-Thread Vials

Description	Volume	Material	100-pk.	1000-pk.
Big Mouth Insert w/Bottom Spring	250µL	Glass	21776	21777
Insert, Flat Bottom	350µL	Glass	21780	24517
Insert, Flat Bottom w/ID Ring	350µL	Glass	24692	24693
Big Mouth Insert w/Glass Flange (Step Design)*	250µL	Glass	24516	21779

Polypropylene inserts available on request (1,000-packs only).

*Not to be used with 9mm screw-thread vials.



21776



24692

WISP Vials

4.0 mL WISP 48 Crimp-Top 13 mm Vials, 15 x 45 mm, Snap Seal

4.0 mL WISP 48 Crimp-Top Vial (vial only)

Description	Volume	Color	100-pk.	1000-pk.
WISP 48 Snap Seal Vial w/White Graduated Marking Spot	4.0mL	Clear	24658	24659

Aluminum Seals w/Septa

for 4.0 mL WISP Crimp-Top Vials

Seal Color	Septa Material	100-pk.	1000-pk.
Silver	PTFE/Natural Rubber	21753	21754
Silver	PTFE/Silicone	21755	21756



24658

instrument reference

For 4.0 mL WISP 48 Style Vials

The following instruments are compatible with 4.0 mL WISP 48 style vials. For further information or questions, please contact your Restek sales representative or technical service.

Manufacturer	Instrument/Model #	Manufacturer	Instrument/Model #
Bruker	LC 51	TosoHaas	TSK-6080, AS-8010, AS-8020
Hitachi	L-7200, L7250	Unicam	LC-XP
Phillips	LC-XP	Waters	48-pos. M700, 710, 717+
Shimadzu	AOC-14/1400, AOC-17, SIL-2AS		



also available

See page 362 for inserts.



24654

4.0 mL WISP 48 Screw-Thread Step Vials (15 x 45 mm, 13/425)

4.0 mL WISP 48 Screw-Thread Step Vials (vials only)

Description	Volume	Material	100-pk.	1000-pk.
WISP 48 Step Vial w/White Graduated Marking Spot	4.0mL	Clear	24654	24655
WISP 48 Step Vial w/White Graduated Marking Spot	4.0mL	Amber	24656	24657

4.0 mL WISP 48 Caps and Septa

Description	Septa Material	100-pk.	1000-pk.
WISP 48 Caps and Septa, Top Hat	PTFE/Silicone	21745	21746
WISP 48 Caps and Septa, Preassembled	Red PTFE/Silicone, 0.065"	21743	21744
WISP 48 Caps, Black Polypropylene, Open-Hole		21741	21742
Septa	Red PTFE/Silicone/PTFE, 0.040"	21751	21752
Septa	Red PTFE/Silicone, 0.060"	21749	21750

Inserts

for 4.0 mL WISP 48 Screw-Thread Step Vials

Description	Volume	Material	100-pk.	1000-pk.
Insert for WISP 48 Vials, Flat Bottom**	500µL	Glass	21787	21788

Polypropylene inserts available on request (1,000-packs only).

**Also fit 4.0mL Snap Seal Vials. See page 361.



24662



24664



24678

1.0 mL WISP 96 Style Shell Vials, 8 x 40 mm

Available in 3 styles.

1.0 mL WISP 96 Style, 8 x 40 mm Shell Vials

Description	Volume	Color	Material	200-pk.	1000-pk.
WISP 96 Style Vial	1.0mL	Clear	Glass	24662	24663
WISP 96 Style Vial	1.0mL	Amber	Glass	24664	24665
WISP 96 Style Vial	1.0mL	Clear	Polypropylene	24678	24679
WISP 96 Style Vial	700µL Limited Volume	Clear	Polypropylene	24680	24681

8mm Starburst Plugs sold separately.



21769



21773

8 mm Starburst Plugs

for Shell Vials, 1.0 mL, WISP 96 Style, 8 x 40 mm

Description	Color	Material	200-pk.	1000-pk.
Starburst Snap Plugs for Shell Vials	Clear	Polyethylene	21769	21770
Starburst Snap Plugs for Shell Vials, Conical	Clear	Polyethylene	21771	21772
Starburst Snap Plugs for Shell Vials, Silicone-Lined	Clear	Polyethylene	21773	21774

Limited Volume Inserts

for Shell Vials, 1.0 mL, WISP 96 Style, 8 x 40 mm

Description	Volume	Material	100-pk.	1000-pk.
Big Mouth Insert w/Bottom Spring	250µL	Glass	21776	21777



21776

did you **know**?

Siltek® coated vials create a highly inert surface for your testing purposes, making them inert to most organics. See **page 353** for more details.

instrument **reference**

For 1.0 mL WISP 96 Style Vials

The following instruments are compatible with 1.0 mL WISP 96 style vials. For further information or questions, please contact your Restek sales representative or technical service.

Manufacturer	Instrument/Model #
Hitachi	L-7200
Waters	96-position M-700, 710, 717+

Crimp-Top and Screw-Top Headspace Vials

- 6, 10, 20, and 27 mL vials available with 20 mm crimp-seal finish.
- 10 and 20 mL screw-top vials available with 18 mm screw-thread finish.
- Compatible with Gerstel and CTC/Leap Technologies headspace samplers when used with magnetic closures.

Screw-Thread Headspace Vials (18 mm)

Description	Volume	Color	Dimensions	100-pk.	1000-pk.
Headspace Vial	10mL	Clear	22 x 45mm	23084	23085
Headspace Vial	10mL	Amber	22 x 45mm	23088	23089
Headspace Vial	20mL	Clear	22 x 75mm	23082	23083
Headspace Vial	20mL	Amber	22 x 75mm	23086	23087

Caps not included.

Magnetic Screw-Thread Caps (18 mm)

Description	Septa Material	100-pk.	1000-pk.
Magnetic Caps and Septa	PTFE/Silicone	23090	23091
Magnetic Caps and Septa	PTFE/Silicone for SPME	23092	23093
Magnetic Caps and Septa	PTFE/Red Chlorobutyl	23094	23095

Headspace Crimp Vials (20 mm)

Description	Volume	Color	Dimensions	100-pk.	1000-pk.
a) Headspace Vial	6mL	Clear	22 x 38mm	21166	21167
b) Headspace Vial, Flat Bottom	10mL	Clear	23 x 48mm	24683	24684
c) Headspace Vial, Rounded Bottom	10mL	Clear	23 x 48mm	21164	21165
d) Headspace Vial, Flat Bottom	20mL	Clear	23 x 75mm	24685	24686
e) Headspace Vial, Rounded Bottom	20mL	Clear	23 x 75mm	21162	21163
f) Headspace Vial	27mL	Clear	30 x 60mm	21160	21161

Vial to instrument compatibility are designated in instrument reference chart. below.

Aluminum Seals w/Septa (20 mm, preassembled)

Description	Seal Color	Septa Material	100-pk.	1000-pk.
Seals w/Septa	Silver	PTFE/Gray Butyl Rubber	21761	21762
Seals w/Septa	Silver	PTFE/Silicone	21763	21764
Pressure Release Seals w/Septa	Silver	PTFE/Gray Butyl Rubber	21765	21766
Pressure Release Seals w/Septa	Silver	PTFE/Silicone	21767	21768
Magnetic Caps w/Septa, with 5mm Hole		Tan Teflon/White Silicone	22833	22832
Magnetic Caps w/Septa, with 8mm Hole		Tan Teflon/White Silicone	22831	22834
Magnetic Caps w/Septa, with 8mm Hole		PTFE/Butyl	22835	22836

5mm hole is compatible with the following systems: Carlo Erba HS500/HS800, CTC 500, Fisons HS500/HS800 and Varian/Chrompack 9020/25. 8mm hole is compatible with the Combi Pal.



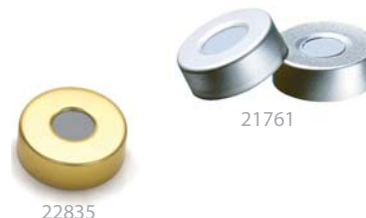
18 mm magnetic screw-thread caps



tech tip

Compatibility concerns?

Refer to the Septum Selection Guide on page 353.



22835

21761

instrument reference

For Headspace Crimp Vials

The following instruments are compatible with the headspace vials listed above (as letter designated above). For further information or questions, please contact your Restek sales representative or technical service.

Manufacturer	Instrument/Model #	Manufacturer	Instrument/Model #	Manufacturer	Instrument/Model #	Manufacturer	Instrument/Model #
a) Carlo Erba	HS 500, HS 800	c) A.I.	Headspace	d) A.I.	Headspace	e) Dani	HSS 39.50, HSS 86.50, SPT 37.50
Agilent	Headspace	Cueni	Headspace	Carlo Erba	HS 500, HS 800	L.E.A.P.	
PerkinElmer	ISS 200	Dani	HSS 39.50, HSS 86.50	CTC	Headspace	Technologies	HS 500
		L.E.A.P.		Cueni	Headspace	PerkinElmer	Autosystem GC, F40, F45, HS 6, Integral 4000, HS 40
b) A.I.	Headspace	Technologies	HS 500	Dani	HSS 39.50, HSS 86.50, SPT 37.50	Tekmar	7000, 7000/7050
Carlo Erba	HS500, HS 800	PerkinElmer	Autosystem GC, F40, F45, HS 6, Integral 4000, HS 40	Agilent	Headspace	Varian	Genesis
Cueni	Headspace	Tekmar	7000, 7000/7050				
Dani	HSS 39.50, HSS 86.50	Varian	Genesis	e) A.I.	Headspace		
Agilent	Headspace			Cueni	Headspace	f) Shimadzu	HSS-2B



2.0 mL Versa Vials™, Glass, 12 x 32 mm

- Increased neck length for accommodating fluctuations in robotic arm settings.
- Eliminate cracked necks, breakage, and dangerous sharp edges, using soft Versa Vial PTFE/silicone plugs.
- Largest target area available, ideal for sampling and pipet use.
- Vials available with or without graduated marking spots.
- Patent pending.

Description	Volume	Color	Material	100-pk.	1000-pk.
Versa Vial	2.0mL	Clear	Glass	22701	22702
Versa Vial	2.0mL	Amber	Glass	22697	22704
Versa Vial w/Graduated Marking Spot	2.0mL	Clear	Glass	22703	22704



1.5 mL Versa Vials™, Polypropylene, 12 x 32 mm

Description	Volume	Color	Material	100-pk.	1000-pk.
Versa Vial	1.5mL	Clear	Polypropylene	22705	22706



Versa Vial™ Inserts

Description	Volume	Material	100-pk.	1000-pk.
Versa Vial Insert w/Glass Flange	250µL	Glass	22707	—
Versa Vial Insert w/Flange	250µL	Polypropylene	22709	22710
Versa Vial Insert, Flat Bottom	250µL	Glass	22711	22712



Versa Vial™ Plugs (12 mm)

Description	Color	Plug Material	100-pk.	1000-pk.
Versa Vial Plug	Green	Polyethylene	22713	22714
Versa Vial Plug	Grey	Chlorobutyl/Siliconized	22715	22716
Versa Vial Plug	White	PTFE/Silicone	22717	22718
Versa Vial Plug	White	PTFE/Silicone Plug w/Slit*	22719	22720

*Eliminates needle damage to plug.



Pre-Cleaned Volatile Organic Analyte (VOA) Sampling Vials

- Container, liner, and closure cleaned and assembled.
- Clear or amber.
- Open top caps.
- Teflon® faced 0.125" silicone septa.
- Each case lot numbered.

Description	Volume	Color	Material	Screw-Thread Size	qty.	cat.#	price
Precleaned VOA Vials	20mL	Clear	Glass	24mm/400	72-pk.	21798	
Precleaned VOA Vials	20mL	Amber	Glass	24mm/400	72-pk.	21799	
Precleaned VOA Vials	40mL	Clear	Glass	24mm/400	72-pk.	21796	
Precleaned VOA Vials	40mL	Amber	Glass	24mm/400	72-pk.	21797	
Collection Vials for ASE 200	60mL	Clear	Glass	24mm/400	72-pk.	26121	
Collection Vials for ASE 200	60mL	Amber	Glass	24mm/400	72-pk.	26122	
Replacement Septa for 20, 40 & 60mL Vials and 250mL Bottles, 24mm x 0.125"			Teflon-lined silicone		100-pk.	24694	

Micro-Vials with Screw Threads

- Two sizes available.
- Tapered for high recovery of contents.
- Work with Mininert® sampling valves.

Description	Volume	Screw Thread Size	qty.	cat.#	price
Micro-Vial, Open Top Cap (attached), Borosilicate Glass, w/Graduated Marking Spot	1.0mL	13mm/425	12-pk.	21050	
Micro-Vial, Open Top Cap (attached), Borosilicate Glass, w/Graduated Marking Spot	3.0mL	20mm/400	12-pk.	21051	



Mininert® Precision Sampling Valves for Vials

Mininert® valves are very convenient for repetitive sampling and limit content exposure to the silicon septum. Models are available for screw-cap and crimp-top vials. The crimp-top valve for 20 mm ID glassware slides into the neck of the vial. Turn the threaded flange to secure a tight fit.

Description	Type	Thread Size	qty.	cat.#	price
Mininert Precision Sampling Valves	Screw-Thread	13mm/425	12-pk.	24900	
Mininert Precision Sampling Valves	Screw-Thread	15mm/425	12-pk.	24901	
Mininert Precision Sampling Valves	Screw-Thread	18mm/400	12-pk.	24902	
Mininert Precision Sampling Valves	Screw-Thread	20mm/400	12-pk.	24903	
Mininert Precision Sampling Valves	Screw-Thread	24mm/400	12-pk.	24904	
Mininert Precision Sampling Valves	Crimp-Top	—	12-pk.	24905	
Replacement Septa			50-pk.	24906	
Septum Insertion Tool			ea.	24907	



Interlock Vials

Interlock limited volume vials offer the performance and convenience of a one piece microvial for a fraction of the cost. A 300 µL insert is fused into a 12 x 32 mm clear or amber glass vial. This one piece design reduces the potential for contamination.

Description	Type	Volume	Color	Material	100-pk.	500-pk.
Interlock Vial	9mm Thread	300µL	Clear	Glass	22433	22434
Interlock Vial	9mm Thread	300µL	Amber	Glass	22435	22436
Interlock Vial	11mm Crimp or Snap Ring	300µL	Clear	Glass	22437	22438
Interlock Vial	11mm Crimp or Snap Ring	300µL	Amber	Glass	22439	22440



also **available**

See pages 356-358 for caps.



Universal plug set for battery charger included in all kits.

Electronic Rechargeable Crimpers and Decappers

- Easy to use; comfortable grip.
- Hundreds of operations from one charge.
- Adjustable crimping force.
- New battery allows for faster charge cycle.
- All kits include a universal plug set for the battery charger.
- For 11 mm and 20 mm caps.
- One-year warranty.

The redesigned electronic crimpers and decappers have a 4.8 volt battery installed. The battery allows for quick, powerful operation and a faster charge cycle, minimizing down-time. Charging the battery takes thirty minutes to two hours. The universal plug set includes U.S., European, UK, and Australian plug clips. Each kit includes a tool, a 4.8 volt battery, which allows for a faster charge cycle, and a universal plug set for the battery charger.

Capping

Easily crimp caps on standard crimp vials.



Decapping has never been easier!

one...

two...

three!



Description	Size	qty.	cat.#	price
Electronic Crimper	11mm	kit	22338	
Electronic Crimper	20mm	kit	22339	
Electronic Decapper	11mm	kit	22340	
Electronic Decapper	20mm	kit	22341	
Replacement Battery for Electronic Crimpers and Decappers		ea.	22342	

Safer than removing caps with pliers, knives, or screwdriver blades!



Easy Grip Manual Crimpers and Decappers

Our new Easy Grip Crimpers and Decappers feature tough, light glass-filled plastic bodies with curved handles, which improve hand comfort during use. The bottom-pull handle allows for a steadier hold than top-push handles. An easily viewed adjustment knob is located at the head of the product. The clearly shown + and - symbols, along with directional arrows, simplify adjusting the intensity of the crimp/decap needed. The knob is also designed to indicate when the crimp setting has been reached, when it fully contacts the body of the product.

Description	Size	qty.	cat.#	price
Crimper	11mm	ea.	23396	
Decapper	11mm	ea.	23397	
Crimper	20mm	ea.	23398	
Decapper	20mm	ea.	23399	

No more burned fingers!



The Claw and The Claw Holder Kit

- Easily removes hot liners from injection ports.
- 4 mL vials (not included) can be replaced when dirty.

Never again will you have to burn your fingers removing a hot injection port liner. The Claw safely and cleanly removes liners, O-rings, or other small objects from the injection port. You can then place the hot objects in a clean 4 mL vial situated in the Claw holder until ready for reuse.

Description	qty.	cat. #	price
The Claw	ea.	26261	
The Claw Holder Kit (includes The Claw and holder)	kit	26262	
WISP 48 Snap Seal Vial	100-pk.	24658	

2.0 mL Sample Vial Racks

- Racks feature alphanumeric indexing for easier vial identification.
- Racks can be stacked for efficient storage.
- Fits most 2.0 mL, 12 x 32 mm vials (vials sold separately).

Description	Capacity	qty.	cat. #	price	qty.	cat. #	price
Polypropylene Storage Rack for 12 x 32mm Vials	50 vials, 5 x 10	ea.	22856	\$17.50	5-pk.	22857	



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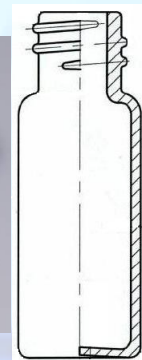
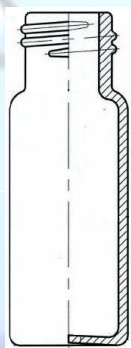
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MS® Sample Vials for Chromatography

11mm Crimp & Screw Cap 2ml 12x32 8-425 and 9-425



... 4ml 13-425 Screw, Headspace 20, 40, 60ml 24-425 Screw ...
pre-cleaned VOA HS Grade ... also Available



Caps and Septa available separately ... if required

MS® Sample Vials

MS® Sample vial are made from first hydrolytical class, borosilicate glass, compliant with the requirements of U.S. and European Pharmacopeia which improves your laboratory productivity, by reducing costs and saving time. These products considerably reduce the risk of analytical test results compromised by ghost peaks, damaged needles or dislodged septa, decreasing analysis failures and sample reruns.

MS® offer Type 1, 51-expansion glass vials and type-2, 33- expansion glass vials.

Feature

- LCGC certificate
- High quality glass Type 1, 51-expansion glass (clear and amber) and type-2, 33- expansion glass (only clear)
- Computerized camera system for quality control throughout the manufacturing process to test critical dimensions, including Height, Diameter, Bottom Thickness and Neck/Thread.
- Compatible with a wide range of HPLC, LCMS and GC Instruments
- Pre-packs including 100 vials and caps for ease and convenience in ordering
- Vials and caps and septas also available separately
- Meet standards set by governing bodies
- Tightest dimensional tolerances in industry

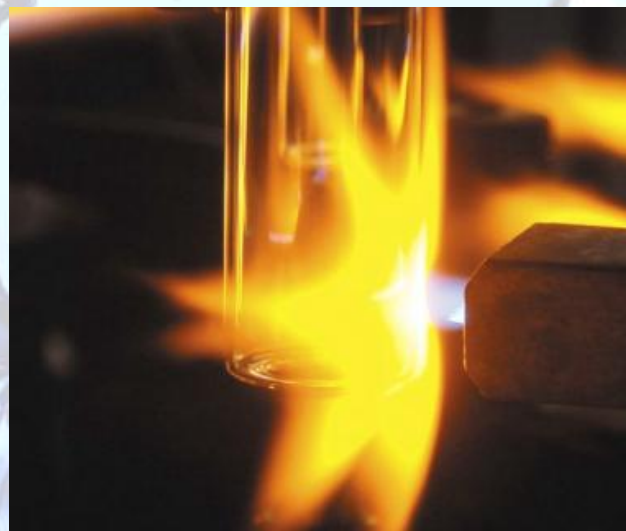
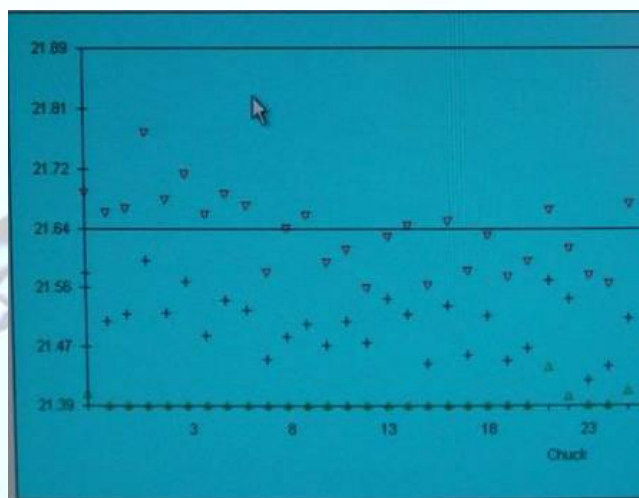
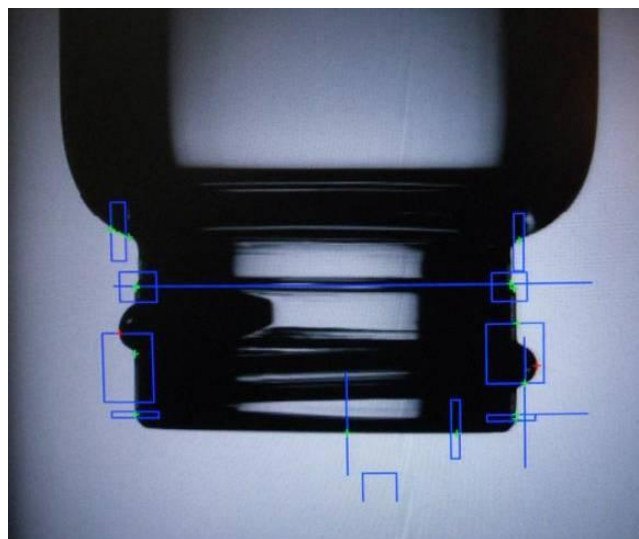
Application

- HPLC instruments
- LCMS instruments
- GC instruments

Vial Closures Guide

Available in three types: crimp, snap and screw cap.

Cap Design	Strength Design	Comments
Crimp	Excellent seal	Requires tools
Snap	Moderate seal	Fast, no tools
Screw	Excellent seal	Universal



Septa Selection Guide

PTFE

- Recommended for single injection application.
- Ideal for use in MS applications
- Excellent solvent resistance and chemical compatibility
- Does not reseal upon punching
- Not for Long-term sample storage

PTFE/Silicone

- Recommended for multiple injection and sample storage
- Excellent resealing
- PTFE chemical resistance until punctured, then will have the chemical compatibility of silicone
- Working temperature range from -40 °C to 200 °C
- Pre-slit PTFE/Silicone
- Prevent vacuum formation in vials
- Eliminates coring from bottom draw-port needles
- Good resealing capabilities
- Recommended for multiple injections
- PTFE chemical resistance until punctured, then will have the chemical compatibility of silicone
- Working temperature range from -40 °C to 200 °C



Vials Selection Guide

- Type 1, 51-expansion borosilicate glass
- type-2, 33- expansion glass
- Deactivated glass (DV)

Treated with gas phase reactive organosilane to produce a hydrophobic glass surface. Can be stored indefinitely.

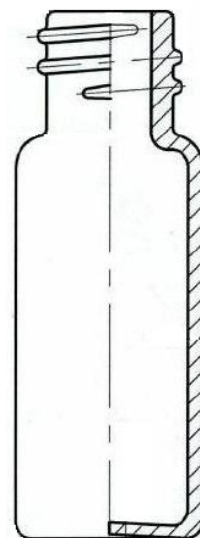
- Headspace Vials

Uniform glass thickness which insures even heat distribution for consistent sampling reliability.

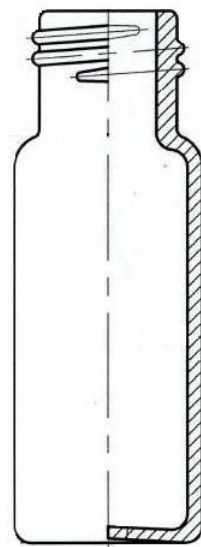


Ordering Information

Screw Top, Standard Opening Vials		
Part No.	Description	Unit
LBSV012C	2ml Clear vial, 8-425 screw top	100/pk
LBSV032C	2ml Clear vial, 8-425 screw top, graduated with writing area	100/pk
LBSV012A	2ml Amber vial, 8-425 screw top	100/pk
LBSV032A	2ml Amber vial, 8-425 screw top, graduated with writing area	100/pk
Screw caps - 8-425, polypropylene plastic for standard screw top vial		
LBSV012	Black screw cap with hole, for 2ml 8-425 screw top vial	100/pk
LBSV032	Blue screw cap with hole, for 2mL 8-425 screw top vial	100/pk
Septa for 8-425 Screw caps		
LBSV02RS	White PTFE/red silicone septa, for 2ml 8-425 screw top vial	10000/pk
LBSV02SS	Red PTFE/white silicone septa, for 2ml 8-425 screw top vial	10000/pk
Screw caps + Septa for standard screw top vial		
LBSV012CRS	White PTFE/red silicone septa + Black screw cap with hole, for 2ml 8-425 screw top vial	100/pk
LBSV012CSS	Red PTFE/white silicone septa + Black screw cap with hole, for 2ml 8-425 screw top vial	100/pk



Screw Top, Wide Opening Vials		
Part No.	Description	Unit
LBSV002C	2ml Clear vial, 9-425 screw top	100/pk
LBSV022C	2ml Clear vial, 9-425 screw top, graduated with writing area	100/pk
LBSV002A	2ml Amber vial, 9-425 screw top	100/pk
LBSV022A	2ml Amber vial, 9-425 screw top, graduated with writing area	100/pk
Screw caps - 9-425, polypropylene plastic for Wide Opening screw top vial		
LBSV002	Blue screw cap with hole, for 2ml 9-425 screw top vial	100/pk
Septa for 9-425 Screw caps		
LBSV03RS	White PTFE/red silicone septa, for 2ml 9-425 screw top vial	10000/pk
LBSV03SS	Red PTFE/white silicone septa, for 2ml 9-425 screw top vial	10000/pk
LBSV23SS	Blue PTFE/white silicone septa, Pre-slit, for 2mL 9-425 screw top vial	10000/pk
Screw caps + Septa for Wide Opening screw top vial		
LBSV002CRS	White PTFE/red silicone septa + Blue screw cap with hole, for 2ml 9-425 screw top vial	100/pk
LBSV102CSS	Red PTFE/white silicone septa + Blue screw cap with hole, for 2ml 9-425 screw top vial	100/pk
LBSV222CSS	Blue PTFE/white silicone septa, Pre-slit + Blue screw cap with hole, for 2ml 9-425 screw top vial	100/pk



Crimp Top, Wide Opening Vials

Part No.	Description	Unit
LBSV042C	2ml Clear vial, crimp top	100/pk
LBSV062C	2ml Clear vial, crimp top, graduated with writing area	100/pk
LBSV042A	2ml Amber vial, crimp top	100/pk
LBSV062A	2ml Amber vial, crimp top, graduated with writing area	100/pk

Crimp seal - aluminum cap with large hole, for crimp top vial

LBSV022	Aluminium cap 11 mm for 2ml crimp top vial	100/pk
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Septa for Crimp seal - aluminum cap

LBSV04RS	White PTFE/red silicone septa, for 2ml crimp vial	10000/pk
LBSV04SS	Red PTFE/white silicone septa, for 2ml crimp vial	10000/pk

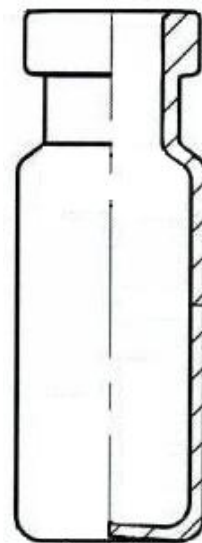
Aluminum cap + Septa for Wide Opening Crimp top vial

LBSV112CRS	White PTFE/red silicone septa+ Aluminium cap, for 2ml crimp top vial	100/pk
LBSV122CRS	Red PTFE/white silicone septa + Aluminium cap, for 2ml crimp top vial	100/pk

Actual DIM : Volume 1.8ml 32x11.7mm, Top ID 1/4"(6.3mm)

Pics are to scale

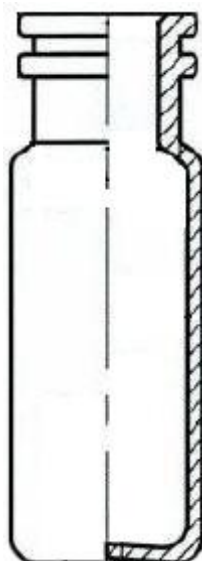
Engineering Drawings available : to select Customers ONLY

**Snap Ring Top, Wide Opening Vials**

Part No.	Description	Unit
LBSV052C	2ml Clear vial, snap top	100/pk
LBSV072C	2ml Clear vial, snap top, graduated with writing area	100/pk
LBSV052A	2ml Amber vial, snap top	100/pk
LBSV072A	2ml Amber vial, snap top, graduated with writing area	100/pk

Snap caps- for snap ring top vial with bonded-in septa

LBSV202CSS	Red PTFE/white silicone septa + Blue snap cap, for 2ml 9-425 Snap Ring Top vial	100/pk
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both Crimp & Screw Vials available . . .

with and without Graduations / White Marking Spot

Septa - Disc Type (in-situ pre-moulded) Silicone Rubber/PTFE laminated

- replacable - Silicone -Top, PTFE - Inner layer

- both red on White and White on Red

2ml 12*32mm Vials, flat base, clear and amber - Nominal sizes Only - designed to fit common chromatography Autosamplers	
Standard Opening Crimp Top 8-425	<ol style="list-style-type: none"> 1. Narrow neck crimp top vials fit many older GC autosamplers. 2. Compatible with all 11mm crimp seals and 5mm nominal diameter inserts
Wide Opening Crimp Top 9-425 eg Agilent Autosamplers	<ol style="list-style-type: none"> 1. Easier to fill 2. Used with either 11mm aluminum seals
Standard Opening Screw Thread 8-425	Standard neck vial—8-425 thread finish, 12x32mm outer profile
Wide opening Screw Thread 9-425	Wide neck vial is easy to fill
11mm Snap	<ol style="list-style-type: none"> 1. Wide opening vial is easier to fill and provides a larger target area for the autosampler needle 2. Used with snap caps

4ml 15*45mm Vials, flat base

Screw Thread, Crimp Top, Snap Top Vials

Headspace Vials

Beveled Edge, Square Rim

Also Available with 10ml, 20ml, and 40ml vials.

More information please visit our website : www.chromtech.net.au

Or mail : Chromalytic Technology Pty Ltd in AUSTRALIA at : info@chromtech.net.au

