Vials, Caps and Septa

PerkinElmer offers a wide selection of superior quality products designed to work with your PerkinElmer instruments. Our precision designed products deliver the peace of mind that comes from knowing that you'll get the results you need.

Quick Reference Index

NEW High Recovery Vials

Manufactured from the same high quality glass as our standard 2 mL vials, these high recovery vials provide efficient handling of a range sample volumes from 30 µL to 1.5 mL, with the convenience of a single vial format.

Vial, Cap and Septa Kits

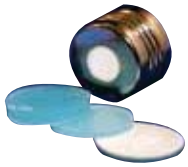
Buying a kit offers you a guaranteed proper fit between the cap and vial. Available with either glass or polypropylene vials, and a range of cap choices these autosampler vial, cap and septa kits make it surprising simple to re-stock your laboratory.

NEW PACK SIZE

For your added convenience, the most popular kits are now available in 1000 pack size.

NEW Ultra-Low Bleed Septa

Our ultra-low bleed septa is the benchmark for high purity septa, eliminating any possibility of contamination. Available in caps for 2 mL vials, headspace and SPME applications.



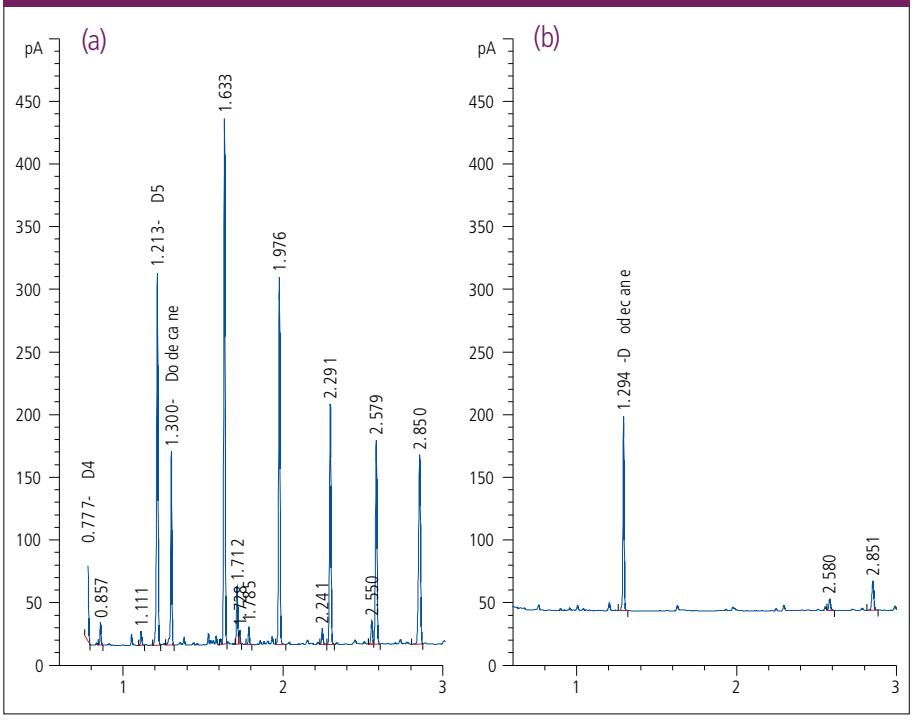
NEW High Powered Crimpers and Decappers

The high powered crimper and decapper is an essential laboratory accessory for any high through put environment. Realise the benefits of not only fast and accurate crimping or decapping, but also the ultimate tool in flexibility with interchangeable jaw sets.

Quality Matters; Vials, Caps and Septa

Vials and closures are a critical part of your workflow; just as important as the instrument or column used. It is easy to think of a vial or cap as an inexpensive commodity that won't impact your results, but the reality is different. It's not only the physical attributes that can affect overall analytical performance, but also the quality of the glass and septa used. Contamination from sub-standard glass or poor quality septa (figure 3) can lead to interferences, inaccuracies and failures which ultimately effects lab productivity.

Figure 3: GC analysis of (a) cheaper supply of 20 mm head space septa. (b) PerkinElmer 20 mm head space septa.



Features and Benefits:

- Vials are made from Type I Borosilicate Glass; which meets all USP, JP and EP requirements. This glass is very hard and has a low expansion coefficient even at high temperature
- Vials are stringently tested using camera gauging technology to ensure final product meets all dimensional specifications
- All our vials, caps and septa are fit to perform on PerkinElmer and non-PerkinElmer instruments
- We stock a wide variety of sizes, colors and materials of vials, caps and septa
- All vials are packed in a clean room and those labelled with 'LC Clean' include an additional certificate of analysis
- Option for ultra low bleed septa for the ultimate in inertness. Batch certification is also available

A sample of the septa was taken and placed into an extraction solution, heated, and the resulting supernatant analyzed by GC. There is a marked difference between the two sources of septa. The poor quality (often cheaper) septa clearly shows the presence of some impurities, siloxanes. These impurities are absent from the PerkinElmer septa sample.

Taking purity and inertness of septa to the next level are PerkinElmer's range of ultra low bleed septa. Offering unsurpassed quality, no bleed is detected ensuring maximum sensitivity for applications; particularly MS, headspace and SPME. See page 31 for a full product listing.

You can rely on PerkinElmer to consistently supply only the highest quality vials, caps and septa to ensure that your analytical instruments continue to operate smoothly. All are tested to our stringent requirements and are compatible with both PerkinElmer instruments and other vendor systems. Choose from a range of glass or polypropylene vials and select your particular closure from a variety of options. Separate vials and caps can readily be purchased or select one of our kits for added convenience.

How to Choose a Vial:

1. **Choose a size.**
   a. Volume (i.e. 2 mL, high recovery or micro volume)
   b. Diameter and height (i.e.12 mm x 32 mm)
   c. ID of the neck (i.e. 9 mm or 11 mm)
   d. Finish (i.e. snap, crimp or screw top)
2. **Choose a color.**
   If your sample is sensitive to light you may want to consider an amber vial.
3. **Choose a material.**
   Vials are available in both glass and polypropylene.
   For biological applications polypropylene vials are recommended.

How to Choose a Seal:

1. **Choose a septa material.**
   Required temperature of operation, resistance to coring, storage shelf time are a few of the variables that should be taken into consideration when choosing your septa material.
   Refer to the table below for an overview of compatibility.
2. **Decide between a pre-slit or non-slit septa.**
   Due to the technique and type of needle they use, pre-slit septa are ideal for LC systems, while non-slit septa are ideal for GC and GC/MS systems.
3. **Match the size of the cap/septa with the size of your vial.**

Cap and Septa Compatibility

	Aluminum/Silicone	PTFE/Silicone	PTFE/Red Rubber	PTFE/Butyl (Red or Gray)	Red or Gray Butyl
Temperature Range	Up to 220 °C	Up to 210 °C	Up to 160 °C	Up to 130 °C	Up to 130 °C
Use for multiple injections?	No	Yes	Yes	No	No
Price per 1000	Most Expensive	Expensive	Economical	Economical	Very Economical
Resistance to coring	Good	Excellent	Good	Low	Low
Recommended for storage	Yes	Yes	Yes	No	No
Solvent Compatibility					
Acids	Excellent	Excellent	Good	Fair	Fair
Alcohols	Good	Good	Fair	Good	Good
Chloroform	Good	Good	Poor	Fair	Fair
Ethyl acetate	Excellent	Excellent	Good	Fair	Fair
Hexane	Good	Good	Poor	Poor	Poor
Methanol	Excellent	Excellent	Good	Good	Good

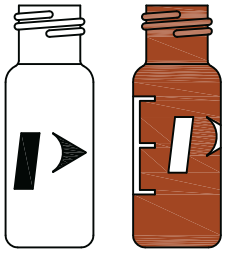
Do You Need Anything Else?

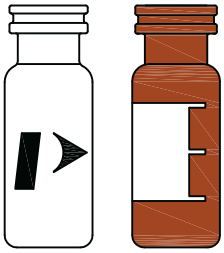
We have a wide variety of crimpers, decappers, and vial trays to also make your analysis easier.

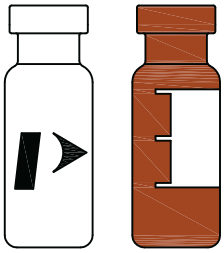
Autosampler Vials

Our vials are manufactured from Type I Borosilicate Glass, which meets all USP, JP, and EP Pharmacopeia requirements. The glass performs excellently at high temperatures and is chemical resistant to acidic, neutral and alkali solutions. All our vials are packed in a clean environment to ensure you receive contaminant free product every time.

2 mL Autosampler Glass Vials (12 x 32 mm)


Screw Top


Snap Top

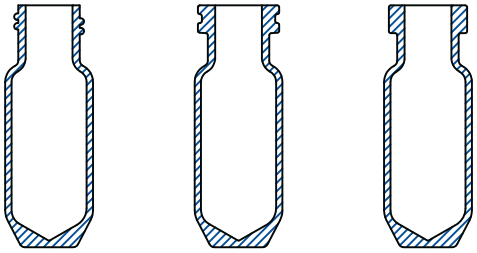

Crimp Top

Neck ID Size (mm)	Vial Top Type	Vial Description	Pkg.	Part No.
8	Screw	Clear glass	200	**N9301069**
8	Screw	Clear glass	100	**N9302945**
9	Screw	Clear glass	100	**N9306201**
9	Screw	Clear glass with write on patch and fill lines	100	**N9307801**
9	Screw	Clear glass with write on patch (deactivated)	100	**N9304139**
9	Screw	Amber glass	100	**N9306220**
9	Screw	Amber glass with write on patch and fill lines	100	**N9307802**
9	Screw	Amber glass with write on patch and fill lines (deactivated)	100	**N9304140**
10	Screw	Clear glass with write on patch and fill lines	100	**N9306053**
10	Screw	Amber glass with write on patch and fill lines	100	**N9306057**
11	Crimp	Clear glass	100	**N9301385**
11	Crimp	Clear glass with write on patch and fill lines	100	**N9306223**
11	Crimp	Clear glass with write on patch and fill lines (deactivated)	100	**N9304135**
11	Crimp	Amber glass	100	**N9302680**
11	Crimp	Amber glass with write on patch and fill lines	100	**N9302679**
11	Crimp	Amber glass with write on patch and fill lines (deactivated)	100	**N9304136**
11	Snap	Clear glass	100	**N9303418**
11	Snap	Clear glass with write on patch and fill lines	100	**N9306207**
11	Snap	Clear glass with write on patch and fill lines (deactivated)	100	**N9304137**
11	Snap	Amber glass with write on patch and fill lines	100	**N9306208**
11	Snap	Amber glass with write on patch and fill lines (deactivated)	100	**N9304138**

NEW

1.5 mL Autosampler High Recovery Vials

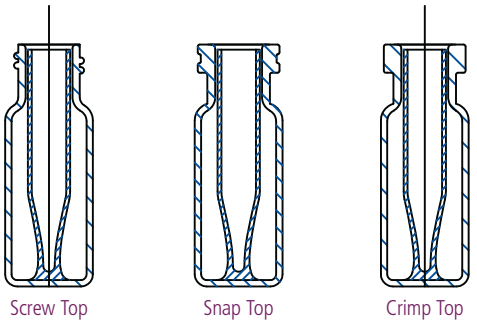
Manufactured from the same high quality Type 1 Class A borosilicate glass as our standard 2 mL vials, these high recovery vials provide efficient handling of a range sample volumes from 30 µL to 1.5 mL, with the convenience of a single vial format.



Neck ID Size (mm)	Vial Top Type	Vial Description	Pkg.	Part No.
9	Screw	Clear glass	100	**N2926202**
11	Snap	Clear glass	100	**N2926201**
11	Crimp	Clear glass	100	**N2926200**

Autosampler Vials with Fused Inserts

For easy sampling, try our glass vials with fused sample inserts; a variety of volumes are available in either clear or amber glass. They are ideal when handling micro volume samples.
For polypropylene standard 2 mL vials and small volume vials, please refer to the table on page 28.



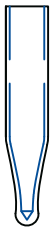
Neck ID size (mm)	Capacity	Vial Top Type	Vial Description	Pkg.	Part No.
8	100 µL	Screw	Clear glass	100	**N9300713**
8	100 µL	Screw	Amber glass	100	**N9300714**
8	200 µL	Crimp	Clear glass	500	**N9302136***
9	300 µL	Screw	Clear glass	100	**N9300715**
9	300 µL	Screw	Amber glass	100	**N9300716**
10	300 µL	Screw	Clear glass	100	**N9300717**
10	300 µL	Screw	Amber glass	100	**N9300718**
11	300 µL	Crimp	Clear glass	100	**N9300709**
11	300 µL	Snap	Clear glass	100	**N9300711**
11	300 µL	Crimp	Amber glass	100	**N9300710**
11	300 µL	Snap	Amber glass	100	**N9300712**

*__N9302136__ should be used with glass vial support sleeve __N9307027__

Autosampler Vial Inserts

Our vial inserts are made from the same Type 1 borosilicate glass as our vials and can be used for maximum sample extraction when handling micro volumes. Extend the usability of your standard 2 mL vials with the addition of a micro volume insert. Simply select the vial insert that matches with the neck ID of your vial.


Flat Bottom Insert


Precision Point Insert

Insert Capacity	Insert Dimension (mm)	Fits Vial Neck ID (mm)	Qty.	Part No.
150 µL	5 x 29 spring bottom	8	100	**N9300705**
200 µL	5 x 31 flat bottom	8	100	**N9300706**
250 µL	6 x 29 spring bottom	9, 10 or 11	100	**N9300703**
400 µL	6 x 31 flat bottom	9, 10 or 11	100	**N9300704**

Polypropylene Vials

Polypropylene vials offer an alternative to glass vials and provide an ultra-inert sample environment, which is ideal for biological samples. They are also an excellent choice for applications involving high metal ion content, such as ion chromatography, AA, ICP or ICPMS.

Volume	Neck ID Size (mm)	Vial Top Type	Vial Description	Pkg.	Part No.
300 µL	9	Screw	Clear polypropylene	100	**N9301732**
2 mL	9	Screw	Clear polypropylene	100	**N9301733**
2 mL	9	Screw	Amber polypropylene	100	**N9301734**
600 µL	9	Screw	Clear polypropylene	500	**N9302130**

Waste and Wash Vials, Caps and Septa for GC

ID Size (mm)	Product Description	Screw Part No. Pkg. 1	Screw Part No. Pkg. 100	Screw Part No. Pkg. 1000
13	Clear Glass Vial – 4 mL (15 x 45 mm)	**09923031**	**N9306247**	
	200 µL Vial Insert			**N9302681**
	Support for Vial Insert			**N9302682***
13	Black Cap with PTFE/Silicone (Ultra Low Bleed) Septa		**N9304141**	**N9304142**
13	Black Phenolic Cap (no septa)	**09923032**		
13	Silicone Septa (no cap)		**N9302780**	
	Vial Diffuser	**N6101276**		

***N9302682** is pkg. 500

Autosampler Caps and Septa

PerkinElmer offers a variety of caps and septa to fulfil your application needs. Our screw thread vial caps use the revolutionary Inter-Seal®. Using a process that bonds silicone/PTFE and other elastomeric compounds directly into thermoplastic closures eliminates liner fallout, while still providing the excellent re-sealability and multiple injection capability. No adhesives are used in this process, bonding the cap and septa at the molecular level of plastic and rubber. These septa have a very broad chemical resistance and can be used in many markets including: environmental, diagnostic packaging, pharmaceutical packaging, cosmetic and food packaging.

Pre-Assembled Cap and Septa

For your convenience, a wide range of pre-assembled caps and septa are available, in differing pack sizes.

Neck ID Size (mm)		Septa Type	Cap Type	Closure Type	Pkg.	Part No.
8		PTFE	Aluminium	Crimp	1000	**N9302140**
8		PTFE/red rubber	Aluminium	Crimp	1000	**03300806**
8		PTFE/silicone	Black flanged cap	Screw	100	**N9303449**
8		PTFE/silicone (pre-slit)	Polyethylene	Snap	1000	**N9302141**
9		PTFE/red rubber	Blue (polypropylene)	Screw	100	**N9306200**
9		PTFE/silicone	Blue (polypropylene)	Screw	100	**N9306360**
9		PTFE/silicone	Blue (polypropylene)	Screw	100	**N9306361**
9		PTFE/silicone (ultra-low bleed)	Blue (polypropylene)	Screw	100	**N9306362**
9		PTFE/silicone (ultra-low bleed)	Blue (polypropylene)	Screw	1000	**N9306363**
9		PTFE/silicone (ultra-low bleed and pre-slit)	Blue (polypropylene)	Screw	100	**N9306364**
9		PTFE/silicone (ultra-low bleed and pre-slit)	Blue (polypropylene)	Screw	1000	**N9306365**
9		PTFE/silicone (pre-slit)	Blue (polypropylene)	Screw	100	**N9306203**
9		PTFE/silicone	Blue (polypropylene)	Screw	1000	**N9306202**
10		PTFE/red rubber	Black (polypropylene)	Screw	100	**N9306206**
10		PTFE/silicone	Black (polypropylene)	Screw	100	**N9306205**
10		PTFE/silicone (pre-slit)	Black (polypropylene)	Screw	100	**N9306052**
11		PTFE/red rubber	Aluminium (sliver)	Crimp	100	**N9306015***
11		PTFE/red rubber	Aluminium (green)	Crimp	100	**N9302684**
11		PTFE/red rubber	Aluminium (red)	Crimp	100	**N9302685**
11		PTFE/red rubber	Aluminium (blue)	Crimp	100	**N9302686**
11		PTFE/silicone (red/white)	Aluminium (silver)	Crimp	100	**N9307823**
11		PTFE/silicone (red/white)	Aluminium (silver)	Crimp	100	**N9306228**
11	**NEW**	PTFE/Silicone (red/white) Ultra low bleed	Aluminium (silver)	Crimp	100	**N9304148**
11	**NEW**	PTFE/Silicone (red/white) Ultra low bleed	Clear (polypropylene)	Snap	100	**N9304149**
11	**NEW**	PTFE/Silicone (red/white) Ultra low bleed	Clear (polypropylene)	Snap	1000	**N9304185**
11		PTFE/silicone (red/white)	Clear plastic (polyethylene)	Snap	100	**N9303419**
11		PTFE/silicone (red/white) pre-slit	Clear plastic (polyethylene)	Snap	100	**N9303416**
11		PTFE/silicone/PTFE	Aluminium (silver)	Crimp	100	**N9306229**
11		PTFE/silicone/PTFE	Gold magnetic	Crimp	100	**N6356473**
11		PTFE/silicone/PTFE	Clear plastic	Snap	100	**N9303417**
11		Aluminium/PTFE	Aluminium (silver)	Crimp	500	**N9302139**
11		Black viton	Aluminium (silver)	Crimp	1000	**N9302784**

*Same Part No. as **N9306230**

Un-Assembled Cap and Septa

Neck ID Size (mm)	Description	Material	Closure Type	Pkg.	Part No.
8	Septa	PTFE/red rubber	–	100	**N9303442**
8	Cap	Phenolic cap	Screw	100	**N9303441**
11	Septa	PTFE/silicone	–	12	**00091357**
11	Septa	PTFE/silicone (pre-split)	–	500	**N9307021**
11	Cap	Clear plastic cap with slit	Snap	500	**N9307023**

Autosampler Vial, Cap and Septa Convenience Kits

Available with either glass or polypropylene vials and a range of cap choices, these autosampler vial, cap and septa kits make it surprising simple to re-stock your laboratory. For your added convenience, the most popular kits are also available in 1000 pack size.

NEW
1000/Pack

ID Size (mm)	Septa Type	Cap Type	Vial Type	Screw Top Part No. Pkg. 100	Screw Top Part No. Pkg. 500	Screw Top Part No. Pkg. 1000
8	PTFE/Silicone	Black Cap	Clear Glass	**N9301945**		
9	PTFE/Red Rubber	Blue Cap	Clear Glass	**N9300699**		**N9300910**
9 (certified)	PTFE/Silicone	Blue Cap	Amber Glass	**N9300719**		**N9300911**
9	PTFE/Silicone	Blue Cap	Clear Glass	**N9300700**		**N9300912**
9 (certified)	PTFE/Silicone	Blue Cap	Clear Glass	**N9300707**		
9	PTFE/Silicone (Pre-Slit)	Blue Cap	Amber Polypropylene	**N9301735**		
9 (certified)	PTFE/Silicone (Pre-Slit)	Gray Cap	Amber Glass	**N9300720**		
9	PTFE/Silicone (Pre-Slit)	Blue Cap	Clear Polypropylene	**N9301736**		
9	PTFE/Silicone (Pre-Slit)	Blue Cap	Clear Polypropylene (300 µL capacity)		**N9306080**	
9 (certified)	PTFE/Silicone (Pre-Slit)	Gray Cap	Clear Glass	**N9300708**		
9	PTFE/Silicone (Pre-Slit)	Blue Cap	Clear Glass	**N9300701**		
10	PTFE/Silicone (Pre-Slit)	Black Cap	Clear Glass	**N9300695**	**N9300650**	**N9300913**
10	PTFE/Silicone (Pre-Slit)	Black Cap	Amber Glass	**N9300696**		**N9300914**

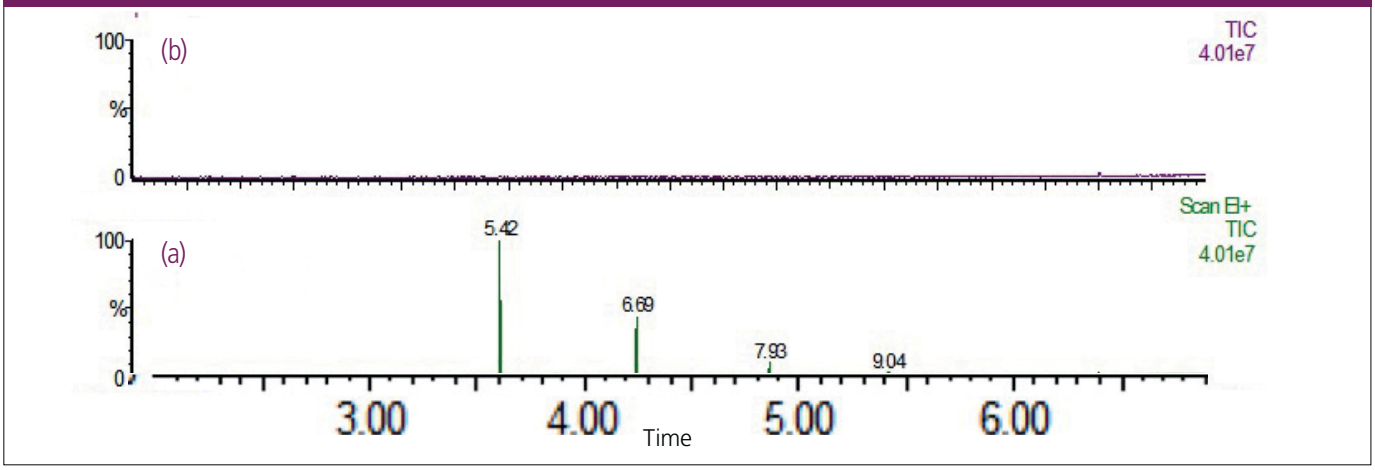
ID Size (mm)	Septa Type	Cap Type	Vial Type	Crimp Top Part No. Pkg. 100	Crimp Top Part No. Pkg. 500	Snap Top Part No. Pkg. 100
11	PTFE/Red Rubber	Aluminum Cap	Clear Glass	**N9300502**	**N9300503**	
11	PTFE/Silicone	Aluminum Cap	Clear Glass	**N9300500**		
11	PTFE/Silicone	Clear Plastic Cap	Clear Glass			**N9300702**
11	PTFE/Silicone (Pre-Slit)	Clear Plastic Cap	Clear Glass			**N9300697**
11	PTFE/Silicone/PTFE	Aluminum Cap	Clear Glass	**N9300501**		
11	PTFE/Silicone/PTFE	Clear Plastic Cap	Clear Glass			**N9300698**

NEW

Ultra Low Bleed Septa

Septa quality, as well as vial quality, is important to ensure rugged and reproducible analytical results, day in day out. PerkinElmer's range of ultra-low bleed septa offers the ultimate in purity and inertness, (figure 4). Eliminate potential contamination from septa which can lead to interferences, inaccuracies and failures which ultimately effects lab productivity. A range of septa combinations area available for standard analytical and headspace applications. The 1.3 mm thick septa are recommended for SPME applications.

Figure 4: Comparison of Headspace Septa by GC (a) PerkinElmer Standard HS Septa. (b) PerkinElmer Ultra Low Bleed Septa.



2 mL Caps with Ultra Low Bleed Septa

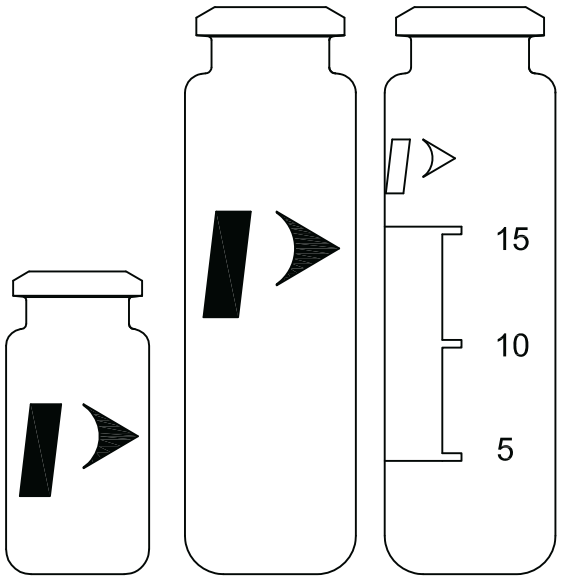
Neck ID Size (mm)	Description	Material	Closure Type	Pkg.	Part No.
9	PTFE/silicone	Blue polypropylene	Screw	100	**N9306362**
9	PTFE/silicone	Blue polypropylene	Screw	1000	**N9306363**
9	PTFE/silicone – pre split	Blue polypropylene	Screw	100	**N9306364**
9	PTFE/silicone – pre split	Blue polypropylene	Screw	1000	**N9306365**
11	PTFE/Silicone (red/white)	Aluminium (silver)	Crimp	100	**N9304148**
11	PTFE/Silicone (red/white)	Clear (polypropylene)	Snap	100	**N9304149**
11	PTFE/Silicone (red/white)	Clear (polypropylene)	Snap	1000	**N9304185**

Headspace Caps with Ultra Low Bleed Septa

Septa Type	Cap Type	Closure Type	Pkg.	Part No
PTFE/Silicone (blue/white) 1.5 mm thick	Bi-Metal Cap	Crimp	100	**N9304181**
PTFE/Silicone (blue/white) 1.5 mm thick	Bi-Metal Cap	Crimp	1000	**N9304182**
PTFE/Silicone (blue/white) 1.5 mm thick	Gold Aluminium Cap	Crimp	100	**N9304183**
PTFE/Silicone (blue/white) 1.5 mm thick	Gold Aluminium Cap	Crimp	1000	**N9304184**
PTFE/Silicone (blue/white) 1.5 mm thick	Aluminium Magnetic Cap	Screw	100	**N9304175**
PTFE/Silicone (blue/white) 1.5 mm thick	Aluminium Magnetic Cap	Screw	1000	**N9304176**
PTFE/Silicone (red/white) 1.3 mm thick	Aluminium Magnetic Cap	Screw	100	**N9304177**
PTFE/Silicone (red/white) 1.3 mm thick	Aluminium Magnetic Cap	Screw	1000	**N9304178**
PTFE/Silicone (white/blue) 1.3 mm thick	Aluminium Magnetic Cap	Screw	100	**N9304179**
PTFE/Silicone (white/blue) 1.3 mm thick	Aluminium Magnetic Cap	Screw	1000	**N9304180**

Headspace Vials

PerkinElmer offers a variety of GC headspace vials, caps and septa to fulfil your application needs. Our patented vial and cap design incorporates pressure-relief features which guarantee safe operation with the high pressure typically developed during thermostatting. Ordinary vials and caps without these safety features may burst. All of our headspace vials have a greater wall thickness and round base which enables them to withstand pressure up to 60 psig. Low-volume sampling can be achieved by using a 6 mL vial and vial adapter. All PerkinElmer headspace vials are manufactured to specific tolerances that are guaranteed for fit and performance.

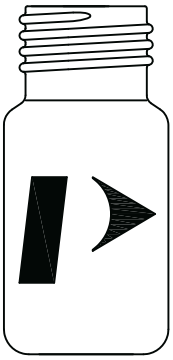


Headspace Crimp Top Vials

Round bottomed vials designed for use with PerkinElmer headspace instruments.

Vial Volume	Dimensions (OD x Height) (mm)	Description	Pkg.	Part No.
6 mL	21.75 x 38	Clear glass vial (requires Part No. **N6120110** for use)*	125	**N9302134**
6 mL	–	Low volume adaptor for 6 mL vial (Part No. **N9302134**)*	10	**N6120110**
10 mL	21.75 x 46	Clear glass vial (requires Part No. **N6120111** for use)	100	**N6356478**
10 mL	–	Low volume adapter for 10 mL vial (Part No. **N6356478**)	10	**N6120111**
20 mL	23 x 75.5	Clear glass vial (no logo)	1000	**N9306216**
20 mL	23 x 75.5	Clear glass vial with 'P' logo	100	**N9306079**
20 mL	23 x 75.5	Clear glass vial with write on patch and fill lines	100	**N9303349**
20 mL	23 x 75.5	Clear glass vial with write on patch and fill lines	1000	**N9303348**
22 mL	23 x 75.5	Clear glass vial, with 'P' logo	1000	**B0104236**

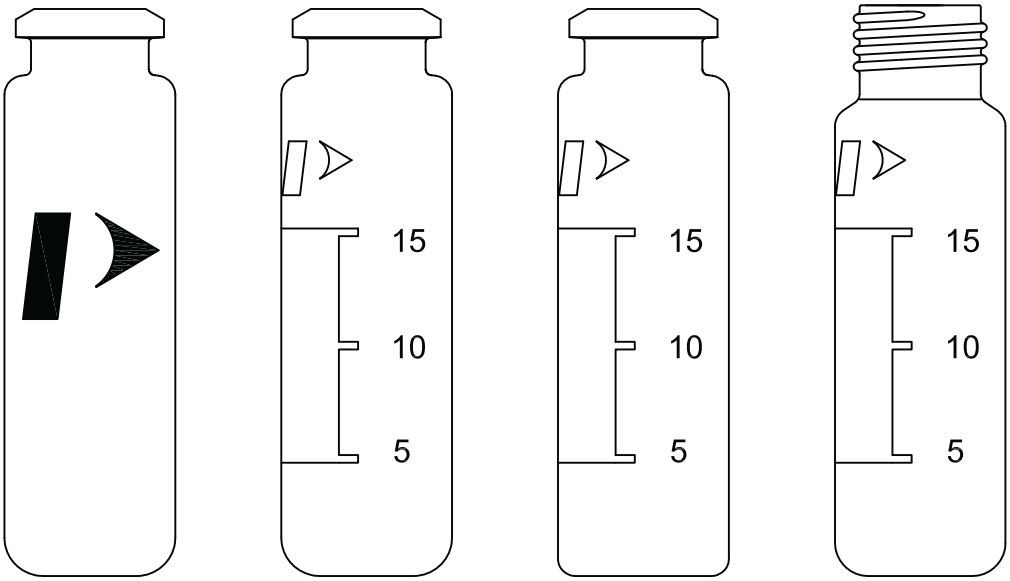
*Not compatible with TurboMatrix HS 110 headspace sampler



Headspace Screw Top Vials

Round bottomed vials designed for use with PerkinElmer headspace instruments.

Vial Volume	Dimensions (OD x Height) (mm)	Description	Pkg.	Part No.
10 mL	23 x 46	Clear glass vial, no adaptor	100	**N6356479**
20 mL	23 x 75.5	Clear glass vial with 'P' logo	100	**N9306075**
20 mL	23 x 75.5	Clear glass vial with 'P' logo	1000	**N9306078**
20 mL	23 x 75.5	Clear glass vial with write on patch and fill lines	100	**N9306240**
20 mL	23 x 75.5	Clear glass vial with write on patch and fill lines	1000	**N9306241**



CTC Headspace Vials

Vial Volume	Vial Closure Type	Dimensions (OD x Height) (mm)	Description	Pkg.	Part No.
20 mL	Crimp	22.6 x 75.5	Clear glass vial with 'P' logo (radius bottom)	100	**N6356471**
20 mL	Crimp	22.6 x 75.5	Clear glass vial with write on patch and fill lines (radius bottom)	100	**N6356472**
20 mL	Crimp	22.6 x 75.5	Clear glass vial with write on patch and fill lines (radius bottom)	1000	**N9303351***
20 mL	Crimp	22.6 x 75.5	Clear glass vial with write on patch and fill lines (flat bottom)	1000	**N9303352****
20 mL	Screw	22.6 x 75.5	Clear glass vial with write on patch and fill lines (radius bottom)	1000	**N9306242**

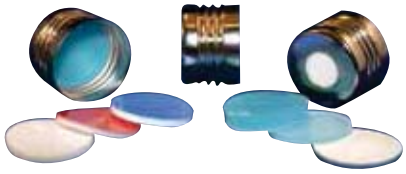
*Also suitable for Shimadzu, Tekmar and Varian
** Also suitable for Agilent

Headspace Caps and Septa

Choose the right septa for your analysis. Although a wide variety of septa is available, chemical compatibility and temperature are the most critical to the analysis. Temperature applies not only to the vial, but also to the temperature of the instrument's needle used for pressurization and sample transfer, which is heated to prevent condensation. A needle temperature higher than the vial temperature setting can decompose the septum material. PTFE coated silicone and aluminum-coated silicone offer the highest temperature operating limits. (See Septa Recommended Chart for more details.)

Pre-Assembled Aluminum Crimp Caps and Septa

Septa Type	Aluminum Caps (Pre-Assembled)	Crimp Top Part No. Pkg. 100	Crimp Top Part No. Pkg. 1000
Butyl (red)	Aluminum Cap, Star Spring and Septa	**N9304143**	**N1010070**
Butyl (gray)	Aluminum Cap, Star Spring and Septa	**N9306269**	**N9306268**
PTFE/Butyl (red)	Aluminum Cap, Star Spring and Septa	**N9304144**	**B4000025**
PTFE/Butyl (gray)	Aluminum Cap, Star Spring and Septa	**N9306265**	**N9306264**
PTFE/Butyl (gray)	Aluminum Cap		**N9302981**
PTFE/Butyl (Pharma Fix Septa)	Aluminum Cap	**N9306224**	
PTFE/Red Rubber (red)	Aluminum Cap, Star Spring and Septa	**N9304147**	**N9302978**
PTFE/Silicone (white)	Aluminum Cap, Star Spring and Septa	**N9304146**	**B4000022**
PTFE/Silicone (white) Low Bleed	Aluminum, Skived Pressure Relief		**N9302975**
PTFE/Silicone (white) Low Bleed	Aluminum, Skived (non-Pressure Relief)		**N9302977**
PTFE/Silicone (natural) Low Bleed	Aluminum, Skived (non-Pressure Relief)		**N9302976**
Aluminum/Silicone	Aluminum Cap, Star Spring and Septa	**N9304145**	**B4000028**
NEW Ultra Low Bleed PTFE/Silicone (blue/white) 1.5 mm thick	Gold Aluminium Cap	**N9304183**	**N9304184**



Pre-Assembled Magnetic Crimp and Screw Caps and Septa

Septa Type	Closure	Magnetic Caps (Pre-Assembled)	Part No. Pkg. 100	Part No. Pkg. 1000
Butyl (gray)	Crimp	Steel Magnetic Cap	**N6356561**	
PTFE/Butyl (red), 3.0 mm thick	Screw	Steel Magnetic Cap	**N9306076**	
PTFE/Butyl (red), 1.5 mm thick	Crimp	Steel Magnetic Cap	**N6356560**	
PTFE/Butyl (red), 1.5 mm thick	Screw	Steel Magnetic Cap	**N6356477**	
PTFE/Butyl (blue)	Crimp	Bi-Metal Magnetic Cap	**N6356565**	
PTFE/Butyl (Pharma Fix Septa)	Crimp	Steel Magnetic Cap	**N6356562**	
PTFE/Silicone (red)	Screw	Steel Magnetic Cap	**N6356474**	
PTFE/Silicone (blue/white) 0.060 in. thick	Screw	Steel Magnetic Cap	**N6356476**	
PTFE/Silicone (white)	Screw	Steel Magnetic Cap	**N9306077**	
PTFE/Silicone (natural)	Crimp	Steel Magnetic Cap	**N6356558**	
PTFE/Silicone (blue)	Crimp	Steel Magnetic Cap	**N6356559**	
PTFE/Silicone (blue)	Screw	Steel Magnetic Cap	**N6356475**	
PTFE/Silicone (blue)	Crimp	SPME Liner Steel Magnetic Cap	**N6356564**	
PTFE/Silicone (blue)	Crimp	Bi-Metal Magnetic Cap	**N6356566**	
Aluminum/Silicone	Crimp	Steel Magnetic Cap	**N6356563**	
NEW Ultra Low Bleed PTFE/Silicone (blue/white) 1.5 mm thick	Crimp	Bi-Metal Cap	**N9304181**	**N9304182**
NEW Ultra Low Bleed PTFE/Silicone (blue/white) 1.5 mm thick	Screw	Aluminium Magnetic Cap	**N9304175**	**N9304176**
NEW Ultra Low Bleed PTFE/Silicone (red/white) 1.3 mm thick	Screw	Aluminium Magnetic Cap	**N9304177**	**N9304178**
NEW Ultra Low Bleed PTFE/Silicone (white/blue) 1.3 mm thick	Screw	Aluminium Magnetic Cap	**N9304179**	**N9304180**

Un-Assembled Aluminum Crimp Caps and Septa

Septa Type	Aluminum Caps (Un-Assembled)	Crimp Top Part No. Pkg. 100	Crimp Top Part No. Pkg. 1000
Butyl (red)	Aluminum Cap, Star Spring and Septa	**B0159356**	**B0159357**
Butyl (gray)	Aluminum Cap, Star Spring and Septa	**N9306270**	**N9306271**
Butyl (gray) Stopper	Aluminum Cap (Ridged)		**N9303350**
Butyl (gray) Stopper	Aluminum Cap		**B0110728**
PTFE/Butyl (red)	Aluminum Cap, Star Spring and Septa	**B0104239**	**B0104240**
PTFE/Butyl (gray)	Aluminum Cap, Star Spring and Septa	**N9306266**	**N9306267**
PTFE/Red Rubber (red)	Aluminum Cap, Star Spring and Septa	**N9302979**	**N9302980**
PTFE/Silicone (white)	Aluminum Cap, Star Spring and Septa	**B0104241**	**B0104242**
Aluminum/Silicone	Aluminum Cap, Star Spring and Septa	**B0104243**	**B0104244**
	Aluminum Cap	**B0099814**	**N9302969**

Headspace Vial, Cap and Septa Convenience Kits

PerkinElmer understands your challenges and offers a variety of kits so that you can easily order and restock your laboratory supplies.

Crimp Top

Septa Type	Cap Type	Vial Type	Part No. Pkg. 100	Part No. Pkg. 500
Butyl (red)	Aluminum Cap, Star Spring and Septa	20 mL Crimp Top Clear Glass with Write on Patch and Fill Lines	**N9303990**	
Butyl (gray)	Aluminum Cap, Star Spring and Septa	20 mL Crimp Top Clear Glass with Write on Patch and Fill Lines	**N9306269**	
PTFE/Butyl (red)	Aluminum Cap, Star Spring and Septa	20 mL Crimp Top Clear Glass with Write on Patch and Fill Lines	**N9303991**	
PTFE/Butyl (gray)	Aluminum Cap, Star Spring and Septa	20 mL Crimp Top Clear Glass with Write on Patch and Fill Lines	**N9306265**	
PTFE/Silicone (natural)	Aluminum, Skived Pressure Relief (extreme bleed)	20 mL Crimp Top Clear Glass with Write-on Patch and Fill Lines (Flat Bottom)		**N9300901**
PTFE/Silicone (white)	Aluminum, Skived Pressure Relief (ultra bleed)	20 mL Crimp Top Clear Glass with Write-on Patch and Fill Lines (Flat Bottom)		**N9300902**
PTFE/Silicone (white)	Aluminum, Skived (ultra bleed)	20 mL Clear Glass with Write-on Patch and Fill Lines (Flat Bottom)		**N9300903**
PTFE/Silicone (white)	Aluminum Cap, Star Spring and Septa	20 mL Crimp Top Clear Glass with Write on Patch and Fill Lines	**N9303992**	
Aluminum/Silicone	Aluminum Cap, Star Spring and Septa	20 mL Crimp Top Clear Glass with Write on Patch and Fill Lines	**N9303993**	

Screw Top

Septa Type	Cap Type	Vial Type	Part No. Pkg. 100
PTFE/Silicone	Open Top Gray Polypropylene Screw Cap	40 mL Screw Top Clear Glass (24 mm x 98 mm)	**N6352030**
PTFE/Silicone	Open Top Gray Polypropylene Screw Cap	40 mL Screw Top Amber Glass (24 mm x 98 mm)	**N6352031**
PTFE/Silicone			**N6352032**
	Open Top Gray Polypropylene Screw Cap		**N6352033***

*N6352033 is only available in pkg. 72

Headspace Starter Kits

We offer a variety of headspace consumables so you can evaluate different types of septa and vials for your sampling requirements.

Kits Include:	Part No.	Headspace Starter Kit 500 Part No. B0505601	Headspace Starter Kit 100 Part No. N6710195	Headspace Mini Starter Kit Part No. N6710197	Headspace Mini Starter Kit 1000 Part No. N6710198
20 mm Hand Crimper	**N9302785**	1	1	1	1*
20 mL Clear Glass Crimp Top Vials	**N9306079**	500	500	100	1000
PTFE/Butyl (red) Septa with Pre-Assembled Aluminum Crimp Caps	**B0104239**	100	100	100	
PTFE/Silicone (white) Septa with Pre-Assembled Aluminum Crimp Caps	**B0104241**	100	100	100	1000
Aluminum/Silicone Septa with Pre-Assembled Aluminum Crimp Caps	**B0104243**	100	100	100	
20 mL Clear Glass Screw Top Vials	**N9306075**	500	100	100	
PTFE/Butyl (red) Septa with Steel Magnetic Screw Caps	**N9306076**	100	100	100	
PTFE/Silicone (white) Septa with Steel Magnetic Screw Caps	**N9306077**	100	100	100	
Needle Seal Assemblies	**B0500833**	2	2	2	
O-Rings	**B0198110**	10	10	10	
Pressure Gauge with Needle for Vials	**B0501377**	1	1	1	
'Static Headspace GC Theory and Practice' book by B. Kolb and L.S. Ettre	**N1011210**	1	1		

* This kit includes an Ergonomic Hand Crimper

Crimpers: Electronic, Handheld and Benchtop

Crimping Tools and Vial Accessories

Whatever your need may be, PerkinElmer offers a wide range of crimping tools for your convenience. Our universal voltage, precision control, power crimpers with adjustable settings are designed to deliver hundreds of crimps on a single battery charge. The tools are ergonomically designed to reduce strain associated with the repetitive actions of using a blocky metal manual crimping tool.

Benchtop Crimper

Manual Ergonomic Crimper

Electronic Hand Crimper

Headspace Crimper and Decapper Tools

Description	Qty.	Part No.
Benchtop Crimper	1	**N6621006**
Benchtop Crimper Jaws – 20 mm	1	**N6621009**
Electronic Hand Crimper – 20 mm	1	**N9304501**
Electronic Hand Decapper – 20 mm	1	**N9304503**
Manual Hand Crimper – 20 mm	1	**N9302785**
Manual Hand Crimper (Ergonomic) – 20 mm	1	**N6621037**
Manual Hand Decapper – 20 mm	1	**N9301270**
Manual Hand Decapper (Ergonomic) – 20 mm	1	**N6621038**

Vial Racks

Description	Qty.	Part No.
11 mm Vial Rack – 50 Vial Capacity	1	**N9301303**
20 mm Vial Rack – 36 Vial Capacity	1	**N9301304**

Autosampler Crimper and Decapper Tools

Description	Qty.	Part No.
Benchtop Crimper	1	**N6621006**
Benchtop Crimper Jaws – 11 mm	1	**N6621008**
Electronic Hand Crimper – 11 mm	1	**N9304500**
Electronic Hand Decapper – 11 mm	1	**N9304502**
Manual Hand Crimper – 8 mm	1	**N9306127**
Manual Hand Crimper – 11 mm	1	**00090699**
Manual Hand Crimper (Ergonomic) – 11 mm	1	**N6621035**
Manual Hand Decapper – 11 mm	1	**N9301390**
Manual Hand Decapper (Ergonomic) – 11 mm	1	**N6621036**

High Powered Crimpers and Decappers

NEW

The high powered crimper and decapper is an essential laboratory accessory for any high through put environment. Realise the benefits of not only fast and accurate crimping or decapping, but also the ultimate tool in flexibility with interchangeable jaw sets. Now in a single unit you can crimp and decap standard analytical vials and headspace vials. Changing the jaws, either size or function, takes a matter of just seconds.

High Powered Crimper with Jaw Set

Description	Qty.	Part No.
High powered crimping tool	1	**N9304510**
20 mm crimper jaw set	1	**N9304511**
20 mm decapper jaw set	1	**N9304512**
11 mm crimper jaw set	1	**N9304513**
11 mm decapper jaw set	1	**N9304514**
Base and mounting kit	1	**N9304515**