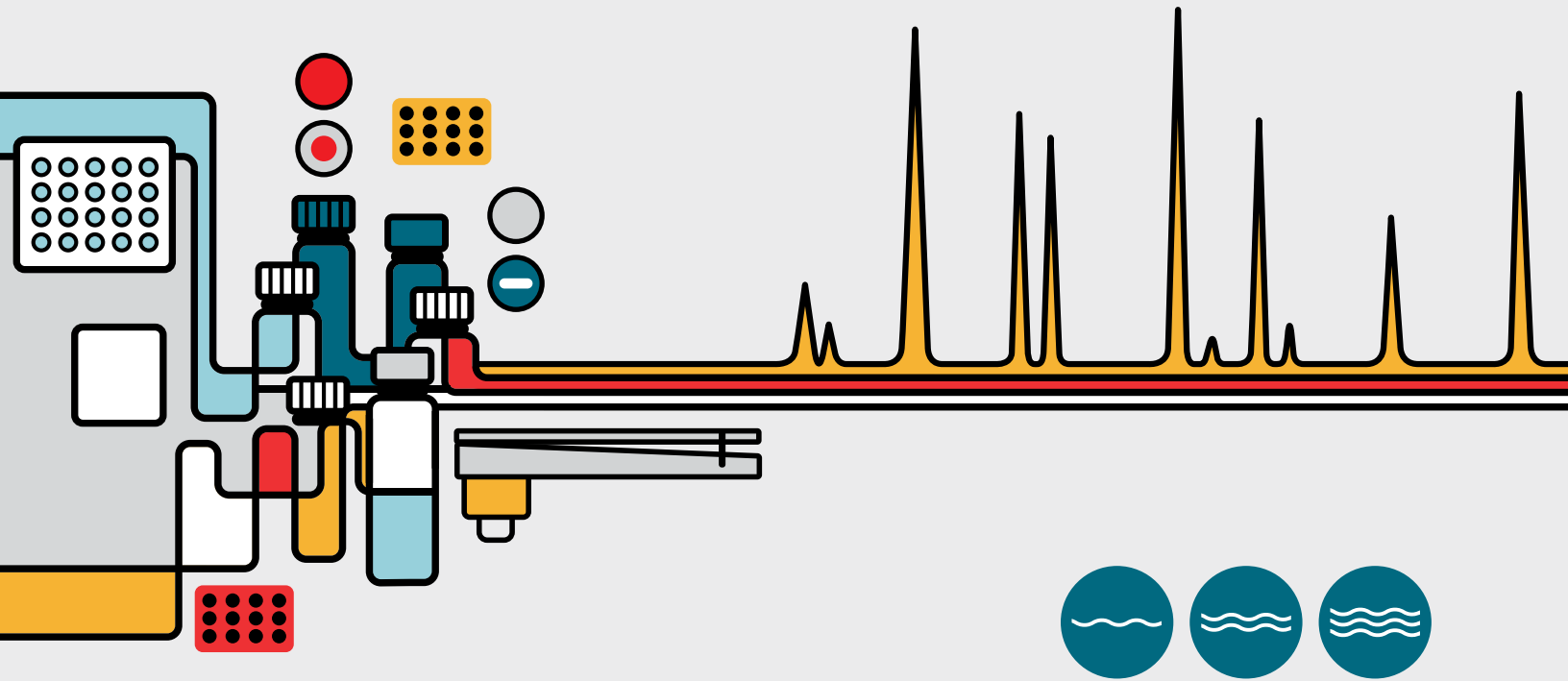


Vials and caps

# SureSTART collection

Streamlined choice. Trusted quality.



# Introduction

**Streamlined choice. Trusted quality. SureSTART vials, caps, inserts, well plates, mats and accessories**

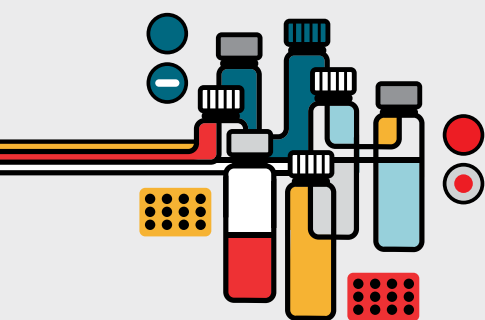
## Excellence from start to finish

The Thermo Scientific™ SureSTART™ sample handling collection includes a range of sample storage and analytical vials and well plates previously sold under Thermo Scientific™ National™, Thermo Scientific™ Chromacol™ and Thermo Scientific™ Sun-SRi™ product names.



All these products have been transitioned and absorbed into one collection so we can deliver a first-class product experience to our customers from the moment you start your purchasing journey, to provide you with performance, instrument compatibility, affordability and delivery that you need.

We understand that not every experiment or analyte is the same, and that you need products that can meet your performance and pricing requirements. You can find three different waves on most our our glass vials, making it easier for analysts to select the right products.

With the SureSTART collection, we ensure that no HPLC/UHPLC or GC system gets left behind. Our vials and well plates are suitable for standard instruments from all vendors, streamlining and simplifying your stockroom—and your budget.



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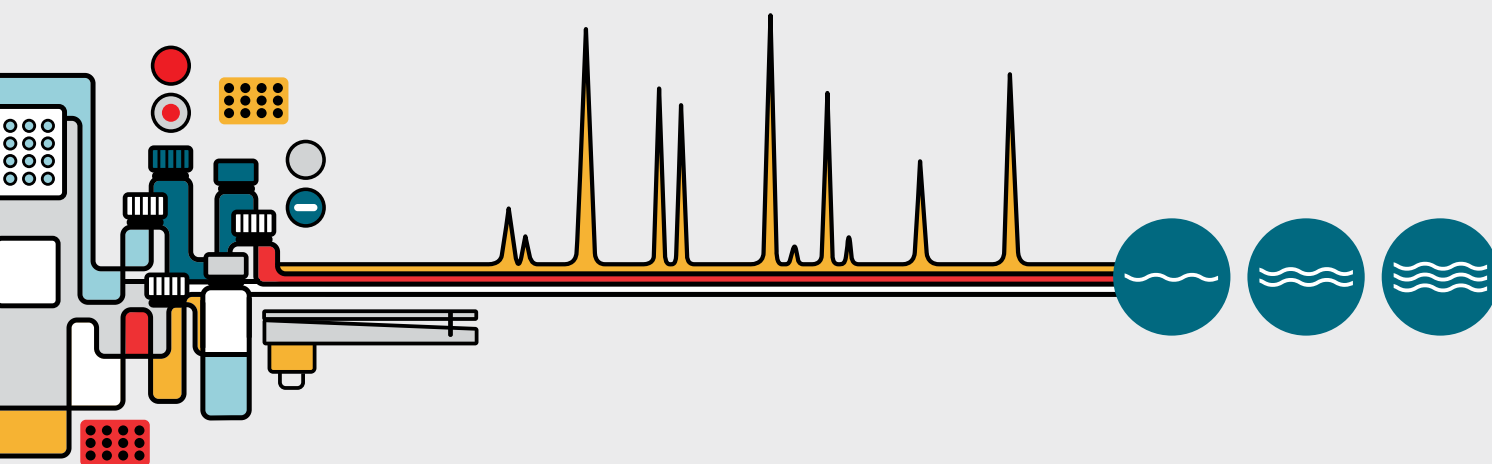
# Why choose Thermo Scientific SureSTART collection?

Five main benefits to you		More ways to master your testing
	<b>Assured quality and performance</b>	Need standards of quality and performance? Our SureSTART collection has you covered, ensuring you can meet regulatory requirements.
	<b>Instrument compatibility</b>	Our collection contains a broad selection of products to provide complete compatibility for add-on and integrated chromatography autosamplers.
	<b>Sample security and low compound adsorption</b>	Protect your samples from being affected by pH shifting, adducting or contamination, and prevent analyte loss from either the cap top or analyte adsorption to the glass surface.
	<b>Better product experience</b>	Our SureSTART collection is segmented into three different Performance levels, with visual waves on each glass vial to ensure you always select the right product for your experiment, every time. 
	<b>Power to extend your consumables budget</b>	We offer several ways to realize extra value and extend your budget, including built-in bulk discounts—the more you buy, the more you save. 



# SureSTART Performance levels

## Greater choice for what matters most



We are committed to providing a broad selection of solutions for all your chromatography and sample storage requirements.

Our vials and autosampler well plates are consistently manufactured with the lowest levels of extractables and leachables. They are also made from glass that has the lowest compound adsorption, and plastic that is tested and approved for analytical use.

We have high level of standards and certification available in the marketplace so that you can obtain highly reproducible data.

Whether you have routine samples, or you need to ensure high level of confidence and compliance, our market-leading collection of storage and autosampler vials, well plates and sample handling accessories has everything you will need

One collection. Three Performance levels. All from one trusted source.




Want to learn more?



**Watch this short video**

to learn how two products can support you with improving your results.

## Analytical performance requirements

Products	Detector type	Description
 <b>Thermo Scientific™ SureSTART™ Performance level 1 products</b>	Non-MS	Suitable for QA/QC applications using core detectors, e.g., UV/Vis, PDA, RI, ELSD, FLD, FID, NPD, ECD, TCD, or FPD. Compound concentrations are at easily detectable levels.
 <b>Thermo Scientific™ SureSTART™ Performance level 2 products</b>	MS	Suitable for routine QA/QC applications using MS technology. Compound concentrations are at easily detectable or low levels of detection.
 <b>Thermo Scientific™ SureSTART™ Performance level 3 products</b>	MS	Suitable for challenging applications, and research-focused applications, using MS technology. Compound concentrations are at/near the method detection limit.



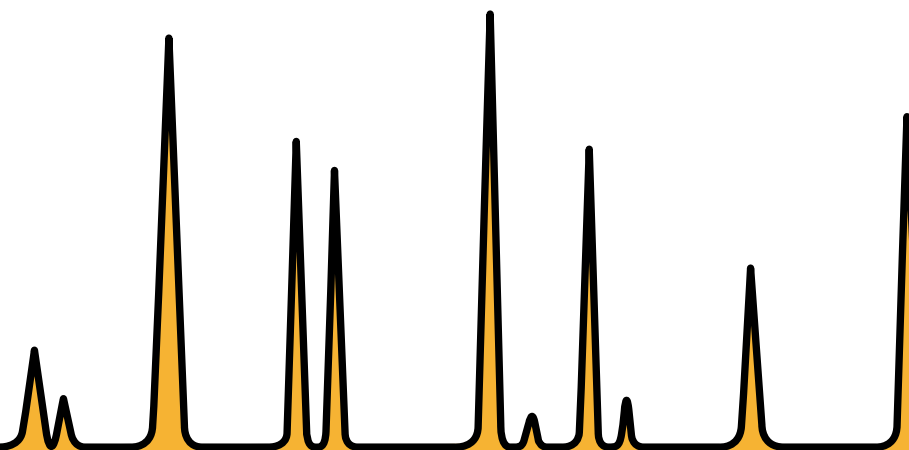
**Performance level 1**  
Everyday analysis:  
Chromatography approved



**Performance level 2**  
High throughput:  
Robust and reproducible



**Performance level 3**  
High performance:  
Selective and sensitive



# Selection guide for vials and well plates

## Which SureSTART product/Performance level is right for you?

There are several factors to consider when choosing a vial or well plate for your application. This section will help guide you through this process to determine which combination is most suitable for your application requirements



### Need a quick answer?

Why not use our online product selector guide that includes our entire SureSTART collection of vials, caps, well plates and mats.



### Already purchasing a product?

Let our selection guide tool find the equivalent SureSTART product/catalog number for you.

The screenshot shows the ThermoFisher Scientific website's SureSTART Selection Guide. At the top is a navigation bar with the ThermoFisher logo, a search bar, and links for Order Status, Quick Order, and Sign in. The main heading is 'SureSTART™ Selection Guide' with the subtext 'Selecting your vial and well plate has never been easier.' To the right is an illustration of laboratory equipment. Below this is a progress indicator with two steps: '1 Selection guide' (active) and '2 Find your vial'. Under 'Find your vial', there are three main options:

- Find your SureSTART solution:** Find the perfect sample handling solution for your application in only a few clicks. (Icon: vial)
- Search by application:** Search for the best SureSTART solution for your application. (Icon: chromatogram)
- Search by equivalence or compatibility:** Search for an equivalent or better performance product to other vendors or older ThermoFisher Scientific brands. Also search for compatible vials, caps, plates and mats to ThermoFisher Scientific products. (Icon: double-headed arrow)

A red circle and a white arrow with a red tip point to the 'Find your SureSTART solution' option.

# Choosing your vials and inserts

The chart below provides a quick guide to selecting the right vial/insert and material for your experimental and application requirements

Performance			Sample volume		
<b>Non-MS</b> Compound levels not challenging	<b>MS</b> Compound levels at relatively low levels	<b>MS</b> Compound levels near method detection limit or for research analysis	Not sample limited	Volumes vary	Limited
↓	↓	↓	↓	↓	↓
<b>SureSTART Performance level 1</b>  General purpose: chromatography approved	<b>SureSTART Performance level 2 high-throughput: for applications requiring robust and reproducible results</b>  High-throughput: for applications requiring robust and reproducible results	<b>SureSTART Performance level 3</b>  High performance: for applications requiring high selectivity and sensitivity	<b>2 mL vial</b>  SureSTART Performance level 1, 2 and 3	<b>High recovery vial</b> <b>Total recovery vial</b>  SureSTART Performance level 3	<b>Thermo Scientific™ SureSTART™ Polyspring Inserts (self-aligning) Pulled insert (economical choice)</b>  <b>Fused insert vial 2 mL vial with separate inserts</b>  SureSTART Performance level 2 and 3









Compound polarity			Compound volatility		Compound stability	
Non-polar Mid-polar	Polar	Highly polar	Volatile	Non-volatile	Light-stable	Light-sensitive
↓	↓	↓	↓	↓	↓	↓
<b>Glass vials</b>  SureSTART Performance level 1, 2 and 3	<b>*GOLD-Grade glass</b>  SureSTART Performance level 3	<b>*Silanized glass vials</b> <b>*Thermo Scientific™ SureSTART™ GOLD-Grade Polypropylene Vials</b> When low levels of inorganic are required and for solvent stability  SureSTART Performance level 1 (PP), 2 and 3 (silanized)	<b>Crimp top vial</b> <b>*Thermo Scientific™ SureStop™ Vial</b> <b>Screw thread vial</b> <b>Headspace vials</b>	<b>Screw thread vial</b> <b>Snap-It vial</b> <b>Crimp top vial</b>	<b>Clear vials</b>	<b>Amber vials</b>

\*These products can be found in SureSTART Performance level 3

\*\*Not recommended for GC applications

# Choosing your septa

The chart below provides a quick guide to selecting the right septa material type for your experimental and application requirements.

Multiple injection?	Temperature?			Thin, fragile needle?	Blunt, thick needle?	Critical analysis?	Low coring?
Good resealability required	-40 °C to 120 °C	-40 °C to 110 °C	-60 °C to 200 °C	Soft and thin septa required	Pre-slit/pre-cut liner as penetration aid (HPLC)	Very clean liner required/ low-extractables	Double-sided polytetrafluoroethylene (PTFE) laminated liners required
							
Silicone/PTFE natural rubber/ ethylene tetrafluoroethylene (TEF)	Natural rubber/ TEF Butyl/PTFE	Red rubber/ PTFE	Silicone/PTFE	Silicone/PTFE	Silicone/PTFE, Pre-slit septum	Silicone/PTFE	PTFE/silicone/ PTFE

# Choosing your well plates and mats

Selecting the perfect Thermo Scientific™ WebSeal™ Plate+ Well Plates and Thermo Scientific™ WebSeal™ Well Plates and Mats for your chromatography requirements is easy using our selector tools and resources.

Performance requirements			Compound polarity		Sample availability		
Compound levels not challenging	Compound levels not challenging/relatively low levels	Compound levels at/near method detection limit	Water and polar	Hydrophobic (e.g., proteins and peptides)	Unlimited	Limited	Very limited
↓	↓	↓	↓	↓	↓	↓	↓
<b>WebSeal</b> Plastic, chromatography tested	<b>WebSeal certified products</b> Plastic, MS tested	<b>WebSeal Plate+</b> Glass-coated plates <b>Plate with glass inserts</b>	<b>WebSeal plastic and certified</b>	<b>WebSeal Plate+</b> Glass-coated plates <b>Plate with glass inserts</b>	<b>Flat bottom</b> Where sample volume is high	<b>U-bottom</b> Where sample volume is low	<b>V-bottom</b> Where sample volume is very low

Microtitre: 14-16 mm (also referred to as microwell and standard well plate)  
Mid well plate: 20-41 mm  
Deep well plate: >44 mm

Autosampler compatibility					
Agilent	CTC (PAL)	Thermo Scientific™ TriPlus™ RSH Autosampler*	Shimadzu	Thermo Scientific™ Vanquish™ (U)HPLC System**	Waters ACQUITY
↓	↓	↓	↓	↓	↓
Microtitre plate Mid well plate Deep well plate					Mid well plate

\*TriPlus RSH with 6-drawer stack can accommodate 24 microtitre 15.5 mm plates microtitre well plate

\*\*Barcoded plates for complete orientation



Examples of microtiter, mid well and deep well plates shown above



## Learn more about the well plate terms:

- Microtitre (also known as microwell and standard well plate): 14–16 mm
- Mid well plate: 20–41 mm
- Deep well plate: >44 mm

# Certified integrity and consistency



With over 40 years of experience supplying vial and well plates, Thermo Scientific SureSTART certified products are supplied to meet 'critical to quality' specifications, consistently. SureSTART products are produced in compliance with ISO 9001 requirements.

In addition, SureSTART certified products include:

- Glass vials made from First Hydrolytic Type 1 A borosilicate glass, which conforms to U.S Food and Drug Administration (FDA), US and EU pharmacopoeias standards
- Chemically and thermally resistant well plates are made of high quality materials
- Our autosampler WebSeal well plates all conform to ANSI SLAS 4-2004 standards
- In-line opto-electronic testing inspects 100% of all key dimensions

- Our well plates are chromatography tested for solvent compatibility and inertness to ensure your data quality is not compromised
- Packaged in material that has been tested and selected for cleanliness
- Subjected to rigorous end-of-line sampling and quality control procedures to ensure all vials remain within specification
- Most glass vials come with a non-removable write-on patch convenience and ease-of-use
- Patented products, such as Thermo Scientific™ AVCS™ (Advanced Vial Closure System) caps designed to minimize sample evaporation
- Products produced and/or packed in a clean environment to reduce contamination
- Glass vials which are available deactivated/silanized

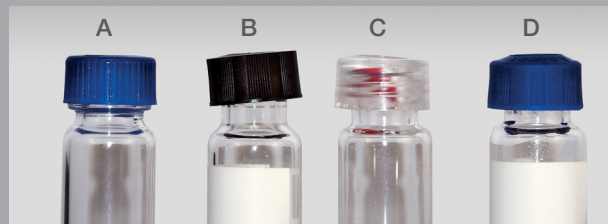
## AVCS caps and SureStop vials

### The next-generation of sample handling

The patented Thermo Scientific™ SureStop and AVCS technology is designed to remove subjectivity around achieving the optimal closure compression when closing a vial. As an integral component of AVCS technology, SureStop vials offer the sealing and performance characteristics of a crimp top vial and the versatility and convenience of a screw thread vial. This is achieved by incorporating a definite stop point into the design of the vial finish, preventing over tightening of the closure.

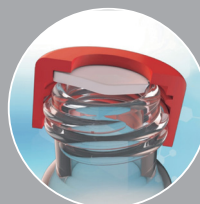
### Compatible with all LC and GC autosamplers, our SureStop vials with our AVCS caps:

- Effectively closures every time
- Obtain cleaner spectra
- More consistent data for GC and LC applications
- Reduce instrument downtime and ensure sample throughput
- Standardize your stockroom

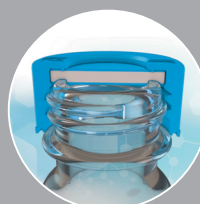


Examples of vial and closure misalignment/deformation

- (A) SureStop vial self-aligning cap
- (B) generic vial, cap tilt
- (C) generic vial, septum dislodged
- (D) generic vial, deformed top



Cap tilt and septum displacement due to over tightening



SureStop provides optimal cap positioning

# Performance level 1: Everyday analysis

## Chromatography approved

### Meet your chromatographic needs

Choose the right vial for chromatographic analyses. Thermo Scientific SureSTART Performance level 1 products are designed for everyday chromatography analysis. They provide an affordable choice for use with all gas chromatography (GC) and high-performance liquid chromatography (HPLC)/ultra-high-performance liquid chromatography (UHPLC) instrument types.

If you are verifying compound presence and quantification using detection techniques such as Ionization Detector (FID), Nitrogen-Phosphorus Detector (NPD), Electron Capture Detector (ECD), Thermal Conductivity Detector (TCD), or Flame Photometric Detector (FPD), our Performance level 1 products are the perfect solution for you—select the products with the one wave.

Within Performance level 1 you will find a selection of vials (glass, plastic, <2 mL, 2 mL and headspace) and Specification-certified convenience kits.

You can also find a great selection of standard and bonded caps to support robotic autosamplers within this Performance level.

Need stoppers? These can also be found within this Performance level.

Vials	Caps
<2 mL PP* screw fixed-insert vials	9 mm screw caps
2 mL glass screw vials	
2 mL glass crimp vials	11 mm crimp caps
<2 mL PP snap fixed-insert vials	11 mm snap caps
Plastic inserts	—
20 mL glass crimp headspace vials	20 mm crimp caps
2.5 mL PP screw vials	—
20 mm stopper	—
Specification-certified kits	—
Storage	—

\* Polypropylene (PP)

### Performance level 1 for everyday analyses

- Packaged in material that has been tested and selected for cleanliness
- All products within this performance level are suitable for use with GC and HPLC/UHPLC
- Headspace vials and caps available in 20 mL options
- Vials are identified by one wave and a convenient write-on patch as standard
- Vials and caps available as screw, snap and crimp
- Vials available as clear or amber glass and as either glass or plastic
- Vial volume sizes ranging from 0.3 mL to 20 mL covering limited sample volumes to headspace analyses
- Caps come in a choice of PP, aluminum and magnetic steel caps with silicone/PTFE, rubber/TEF, or butyl/PTFE septa
- Use Thermo Scientific™ manual or electronic crimpers and decrimpers for easy application and removal of crimp caps
- Buy vials and caps in bulk for greater savings

### Specification-certified

- All SureSTART vials are dimensionally verified to ensure autosampler compatibility
- Automated optical and gauge inspection to ensure critical dimensions and tolerances
- Vials meet all relevant requirements of USP (US), EP (EU), and JP (Japan) pharmacopoeias
- Uniform and defect-free

### Lot traceable

- 100% traceable through the manufacturing process
- Certificate of conformance (CoC) available by lot number upon request



# Screw vials and associated caps

(<2 mL – 2 mL vials, 9 mm caps)

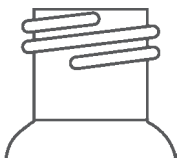
## <2 mL polypropylene screw vials




Performance level 1 for everyday analysis

### Description

- Short thread screw
- 12 mm x 32 mm (diameter x height)
- No marking spot
- Specification-certified

For use with 9 mm screw caps, or 9 mm AVCS screw caps



Key attributes	Suitable for PFAS analysis Fixed insert	Suitable for PFAS analysis	Suitable for PFAS analysis
Vial color and material	Clear PP	Clear PP	Amber PP
Total volume	0.4 mL	1.5 mL	1.5 mL
Usable volume	0.3 mL	1.0 mL	1.0 mL
Residual volume	4 µL	170 µL	170 µL
Ordering information	<b>Cat. no.</b>	<b>Cat. no.</b>	
100/pack 	<a href="#">6ESV9-04PP</a>	<a href="#">6ESV9-1PP</a>	<a href="#">C4000-12</a>
10 x 100/pack 	<a href="#">6ESV9-04PPT</a>	<a href="#">6ESV9-1PPT</a>	-
50 x 100/pack 	<a href="#">6ESV9-04PPF</a>	<a href="#">6ESV9-1PPF</a>	-



# Screw vials and associated caps (continued)

## (<2 mL – 2 mL vials, 9 mm caps)

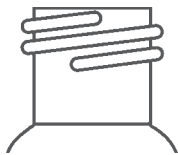
### 2 mL glass screw vials




Performance level 1 for everyday analysis

#### Description

- Short thread screw
- 12 mm x 32 mm (diameter x height) flat bottom base
- Marking spot
- Specification-certified

For use with 9 mm screw caps, or 9 mm AVCS screw caps



Vial color and material	Clear glass	Amber glass
Total volume	2.0 mL	2.0 mL
Usable volume	1.5 mL	1.5 mL
Residual volume	170 µL	170 µL
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">CHSV9-10P</a>	<a href="#">CHSV9-20P</a>
10 x 100/pack 	<a href="#">CHSV9-10PT</a>	<a href="#">CHSV9-20PT</a>
50 x 100/pack 	<a href="#">CHSV9-10PF</a>	<a href="#">CHSV9-20PF</a>



# Screw vials and associated caps (continued)

(>2 mL vials, 9 mm caps)

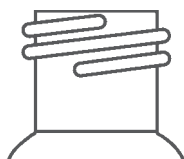
## 2.5 mL polypropylene screw vials


Performance level 1 for everyday analysis

### Description

- 15 mm × 45 mm mm (diameter × height)
- 13 mm/13-425 screw thread
- High recovery base
- No marking spot
- Specification-certified

For use with 13 mm screw caps



Vial color and material	Clear PP
Total volume	2.5 mL
Usable volume	2 mL
Residual volume	15 µL
Ordering information	Cat. no.
100/pack 	<a href="#">C4015-14</a>



# Screw vials and associated caps (continued)

## (>2 mL vials)

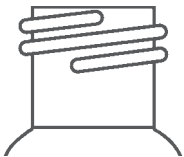
### 3.5 mL screw vials


Performance level 1 for everyday analysis

#### Description

- 13 mm/13-425 screw thread
- 15.25 mm × 45 mm (diameter x height) high recovery internal base
- Specification-certified

For use with 13 mm screw caps



Vial color and material	Clear glass
Total volume	3.5 mL
Usable volume	3.0 mL
Residual volume	15 µL
Ordering information	Cat. no.
100/pack 	<a href="#">C4015-9</a>



# Screw vials and associated caps (continued)

## (<2 mL – 2 mL vials, 9 mm caps)

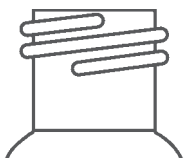
### 9 mm screw caps

Performance level 1 for everyday analysis

#### Description

- Short thread screw
- 9 mm
- Specification-certified

For use with <2 mL and 2 mL screw vials



<b>Key attributes</b>	AVCS	AVCS	AVCS	Pre-slit septum	Suitable for PFAS* analysis, AVCS
<b>Cap color and material</b>	Blue PP	Blue PP	Blue PP	Blue PP	Clear PP
<b>Septum color and material</b>	Red natural rubber/ clear TEF	Red rubber/ ivory PTFE	White silicone/red PTFE	White silicone/blue PTFE	Integral PP septum, thinned penetration area
<b>Septum thickness</b>	1.0 mm	1.0 mm	1.0 mm	1.0 mm	N/A
<b>Septum hardness</b>	60° shore	45° shore	45° shore	55° shore	N/A
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack	<a href="#">CHSC9-10</a>	<a href="#">CHSC9-20</a>	<a href="#">CHSC9-30</a>	<a href="#">CHSC9-40</a>	<a href="#">6ESC9-50</a>
10 x 100/pack	<a href="#">CHSC9-10T</a>	<a href="#">CHSC9-20T</a>	<a href="#">CHSC9-30T</a>	<a href="#">CHSC9-40T</a>	-
50 x 100/pack	<a href="#">CHSC9-10F</a>	<a href="#">CHSC9-20F</a>	<a href="#">CHSC9-30F</a>	<a href="#">CHSC9-40F</a>	-

\* Per- and polyfluoroalkyl substances (PFAS)



# Screw vials and associated caps (continued)

(<2 mL – 2 mL vials, 9 mm caps)

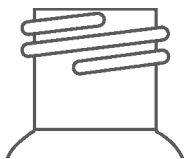
## 9 mm screw caps (continued)



Performance level 1 for everyday analysis

### Description

- Short thread screw
- 9 mm
- Specification-certified

For use with <2 mL and 2 mL screw vials



Key attributes	-	Pre-slit septum	-	Pre-slit septum	Integrated septum
	Bonded	Bonded	Bonded	Bonded	AVCS
Cap color and material	Blue PP	Blue PP	Blue PP	Blue PP	Blue PP
Septum color and material	White silicone/ red PTFE	White silicone/ red PTFE	White silicone/ white PTFE	White silicone/ white PTFE	Polypropylene; integral septum
Septum thickness	1.0 mm	1.0 mm	1.0 mm	1.0 mm	N/A
Septum hardness	45° shore	45° shore	45° shore	45° shore	N/A
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack	<a href="#">CHSC9-30UB</a>	<a href="#">CHSC9-30UBS</a>	<a href="#">CHSC9-35UB</a>	<a href="#">CHSC9-35UBS</a>	<a href="#">C5000-50B</a>
10 x 100/pack 	-	-	<a href="#">CHSC9-35UBT</a>	<a href="#">CHSC9-35UBST</a>	-
50 x 100/pack 	-	-	<a href="#">CHSC9-35UBF</a>	<a href="#">CHSC9-35UBSF</a>	-



# Screw vials and associated caps (continued)

## (13 mm caps)

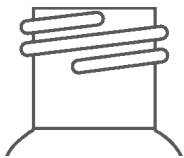
### 13 mm screw caps


Performance level 1 for everyday analysis

#### Description

- Screw thread closure (13 mm/13-425)
- Specification-certified

For use with 4 mL screw vials (and other vials with 13-425 screw thread dimensions)



Key attributes	Open top	Integrated septum
Cap color and material	Black PP	Clear PP
Septum color and material	No septa included	Thinned penetration line/PP
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">C4015-1A</a>	<a href="#">C4015-5A</a>



# Crimp vials and associated caps

## (2 mL, 11 mm caps)



Seal these crimp vials with 11 mm aluminum crimp caps and septa using a manual or electronic crimper tool.

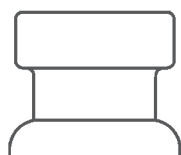
### 2 mL glass crimp vials




Performance level 1 for everyday analysis

#### Description

- Crimp closure (11 mm)
- 12 mm x 32 mm (diameter x height) flat bottom base
- Marking spot
- Specification-certified

For use with 11 mm crimp caps



Vial color and material	Clear glass	Amber glass
Total volume	2.0 mL	2.0 mL
Usable volume	1.5 mL	1.5 mL
Residual volume	170 µL	170 µL
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">CHCV11-10P</a>	<a href="#">CHCV11-20P</a>
10 x 100/pack 	<a href="#">CHCV11-10PT</a>	<a href="#">CHCV11-20PT</a>
50 x 100/pack 	<a href="#">CHCV11-10PF</a>	<a href="#">CHCV11-20PF</a>



# Crimp vials and associated caps (continued)

## (2 mL, 11 mm caps)

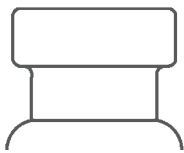
### 11 mm crimp caps

Performance level 1 for everyday analysis

#### Description

- Crimp closure (11 mm)
- Specification-certified

For use with <2 mL and 2 mL crimp vials, or <2 mL and 2 mL snap vials  
Use with 11 mm crimpers and decrimpers



Cap color and material	Silver aluminum	Silver aluminum
Septum color and material	Natural rubber/clear TEF	White silicone/red PTFE
Septum thickness	1.0 mm	1.3 mm
Septum hardness	60° shore	45° shore
Ordering information	Cat. no.	Cat. no.
100/pack	<a href="#">CHCC11-10</a>	<a href="#">CHCC11-30</a>
10 x 100/pack	<a href="#">CHCC11-10T</a>	<a href="#">CHCC11-30T</a>
50 x 100/pack	<a href="#">CHCC11-10F</a>	<a href="#">CHCC11-30F</a>

#### Learn more about:

Manual and electronic crimpers and decrimpers





# Snap vials and associated caps

(<2 mL vials, 11 mm caps)

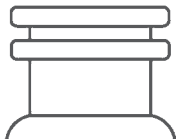
## <2 mL polypropylene snap fixed-insert vials




Performance level 1 for everyday analysis

### Description

- Snap (11 mm)
- 12 mm x 32 mm (diameter x height)
- No marking spot
- Specification-certified
- These vials can be used for PFAS analysis

For use with 11 mm snap or crimp caps



Key attributes	Suitable for PFAS analysis	Suitable for PFAS analysis
Vial color and material	Clear PP, conical	Clear PP, conical
Total volume	0.3 mL	0.6 mL
Usable volume	0.2 mL	0.4 mL
Residual volume	4 µL	4 µL
Ordering information	Cat. no.	
100/pack 	<a href="#">6ERV11-03PPC</a>	-
1x 1000/pack 	<a href="#">6ERV11-03PPCT</a>	<a href="#">500 102</a>
50 x 100/pack 	<a href="#">6ERV11-03PPCF</a>	-



# Snap vials and associated caps (continued)

## (<2 mL vials, 11 mm caps)

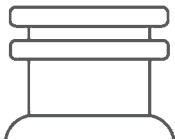
### <2 mL polypropylene snap fixed-insert vials (continued)

Performance level 1 for everyday analysis

#### Description

- Snap (11 mm)
- 12 mm x 32 mm (diameter x height)
- No marking spot
- Specification-certified
- These vials can be used for PFAS analysis

For use with 11 mm snap caps



Key attributes	Suitable for PFAS analysis	Suitable for PFAS analysis
Vial color and material	Clear PP, conical	Clear PP, flat bottom
Total volume	0.8 mL	1.0 mL
Usable volume	0.6 mL	0.8 mL
Residual volume	6 µL	80 µL
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack	<a href="#">6ERV11-08PPC</a>	<a href="#">6ERV11-08PPFB</a>
10 x 100/pack	<a href="#">6ERV11-08PPCT</a>	<a href="#">6ERV11-08PPFBT</a>
50 x 100/pack	<a href="#">6ERV11-08PPCF</a>	<a href="#">6ERV11-08PPFBF</a>



# Snap vials and associated caps (continued)

## (<2 mL vials, 11 mm caps)

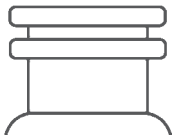
### 11 mm snap caps


Performance level 1 for everyday analysis

#### Description

- Snap closure (11 mm)
- Specification-certified
- Does not re-seal after puncture
- These caps can be used for PFAS analysis

For use with 11 mm snap vials



Key attributes	Suitable for PFAS analysis	Suitable for PFAS analysis
Cap color and material	Blue PE snap cap with integral PE membrane	Clear PE snap cap with integral PE membrane
Septum color and material	Integral septum	Integral septum
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6ERC11PE</a>	<a href="#">6ERC11PEC</a>



# Plastic inserts (2 mL vials)

Need more information about which insert is most suitable for you?

Watch this short video

## Plastic inserts for 2 mL vials

Performance level 1 for everyday analysis

### Description

- 6 mm × 31 mm (diameter × height) (size × height) conical with polyspring base
- No marking spot but filling lines
- Specification-certified
- This insert can be used for PFAS analysis

For use with 2 mL screw vials, 2 mL snap vials or 2 mL crimp vials



Key attributes	Suitable for PFAS analysis
Insert color and material	Clear PP with clear PP polyspring
Total volume	0.30 mL
Usable volume	0.25 mL
Residual volume	4 µL
Ordering information	Cat. no.
100/pack	<a href="#">6EME03CPPSP</a>
10 x 100/pack	<a href="#">6EME03CPPSPT</a>
50 x 100/pack	<a href="#">6EME03CPPSPF</a>

### Learn more about:



2 mL glass screw vials



2 mL glass crimp vials



2 mL glass snap vials





# Headspace vials and associated caps

(20 mL vials, 20 mm caps)

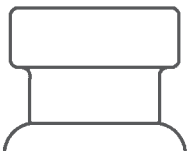
## 20 mL glass crimp headspace vials



Performance level 1 for everyday analysis

### Description

- Crimp
- 22.5 mm × 75.5 mm (diameter × height) square rim
- Marking spot
- Specification-certified

For use with 20 mm crimp caps



Vial color and material	Clear glass, round bottom base	Clear glass, flat bottom base
Total volume	20 mL	20 mL
Usable volume	18 mL	20 mL
Residual volume	0.8 mL	0.8 mL
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">CHCV20-14</a>	<a href="#">CHCV20-16</a>
10 x 100/pack 	<a href="#">CHCV20-14T</a>	-



# Headspace vials and associated caps (continued)

## (20 mL vials, 20 mm caps)

### 20 mm crimp caps

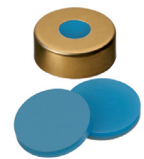
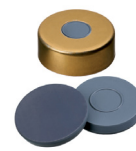
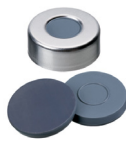
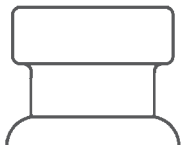
Performance level 1 for everyday analysis

#### Description

- Crimp closure (20 mm)
- Specification-certified

For use with 10 mL and 20 mL crimp headspace vials (with diameter neck size of 20 mm)

Use with 20 mm crimpers and decrimpers



Cap color and material	Silver aluminum	Silver aluminum	Silver aluminum	Gold magnetic steel	Gold magnetic steel
Septum color and material	Molded	-	-	Molded	-
	Grey butyl/ grey PTFE	Blue silicone/ white PTFE	-	Grey butyl/ grey PTFE	Blue transparent silicone/clear PTFE
Septum thickness	3.0 mm	3.0 mm	-	3.0 mm	3.0 mm
Septum hardness	50° shore	45° shore	-	50° shore	45° shore
Ordering information	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack	<a href="#">CHCC20-1</a>	<a href="#">CHCC20-2</a>	-	<a href="#">CHCC20-1M</a>	<a href="#">CHCC20-2M</a>
10 x 100/pack	<a href="#">CHCC20-1T</a>	<a href="#">CHCC20-2T</a>	<a href="#">6ECC200T</a>	<a href="#">CHCC20-1MT</a>	<a href="#">CHCC20-2MT</a>
50 x 100/pack	<a href="#">CHCC20-1F</a>	<a href="#">CHCC20-2F</a>	-	-	-

#### Learn more about:

Manual and electronic crimpers and decrimpers





# Stoppers and septa

## 20 mm stoppers and septa




Performance level 1 for everyday analysis

### Description

- Specification-certified

For use with vials with diameter neck size of 20 mm (e.g. 10 mL/20 mL crimp vials)



Product description	Stopper (20 mm)	Septum	Septum
Color and material	Grey bromobutyl	Black butyl molded	Grey butyl/black PTFE
Septum thickness	3.0 mm	3.0 mm	3.0 mm
Septum hardness	45° shore	52° shore	52° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">CHBS-20</a>	-	-
1 x 1000/pack 	<a href="#">CHBS-20T</a>	<a href="#">20-CB3</a>	<a href="#">20-CBT3</a>
50 x 100/pack 	<a href="#">CHBS-20F</a>	-	-



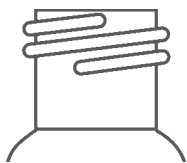
# Specification-certified kits

## Specification-certified shell, screw vial and cap kits

Performance level 1 for everyday analysis

### Description

- 9 mm screw vial with 9 mm cap
- Specification-certified



Vial color and material	Clear PP	Clear PP	Clear PP
Vial total volume	0.4 mL	0.4 mL	0.4 mL
Cap color and material	Blue PP screw cap	Blue PP screw cap	Black PP screw cap bonded
Septum color and material	White silicone/blue PTFE, Pre-slit septum	White silicone/red PTFE	White silicone/red PTFE
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack	<a href="#">6EKPP97</a>	<a href="#">6EKPP87</a>	<a href="#">C5000-387</a>
Kit includes	Cat. no.	Cat. no.	Cat. no.
Kit vial	<a href="#">6ESV9-04PP</a>	<a href="#">6ESV9-04PP</a>	<a href="#">6ESV9-04PP</a>
Kit closure	<a href="#">CHSC9-40</a>	<a href="#">CHSC9-30</a>	<a href="#">6PSC9STB1</a>



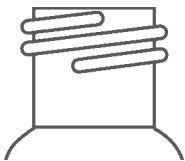
# Specification-certified kits (continued)


## Specification-certified shell, screw vial and cap kits (continued)

Performance level 1 for everyday analysis

### Description

- Screw thread kits
- 9 mm short thread
- Specification-certified



Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass
Vial total volume	1.5 mL	1.5 mL	1.5 mL	1.5 mL
Cap color and material	Blue PP	Blue PP	Blue PP	Blue PP
Septum color and material	White silicone/red PTFE	White silicone/red PTFE	White silicone/blue PTFE; Pre-slit septum	White silicone/blue PTFE; Pre-slit septum
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">CHCK9-10PVT</a>	<a href="#">CHCK9-20PVT</a>	<a href="#">CHCK9-40PVT</a>	<a href="#">CHCK9-50PVT</a>



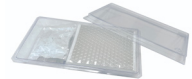
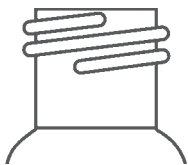
# Specification-certified kits (continued)

## Specification-certified shell, screw vial and cap kits (continued)

Performance level 1 for everyday analysis

### Description

- Screw
- 9 mm short thread
- Specification-certified
- These kits are suitable for PFAS analysis



Key attributes	Suitable for PFAS analysis	Suitable for PFAS analysis	-	-
Vial color and material	Clear PP snap vial	Clear PP screw vial	Clear glass shell vial	Amber glass shell vial
Vial total volume	0.8 mL	1.5 mL	1.25 mL	1.25 mL
Cap color and material	Blue polyethylene snap cap	Clear PP screw cap	Lamela PE plug	Lamela PE plug
Septum color and material	Integral PE septum	Integral PP septum	-	-
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack	<a href="#">6EKRV11PP-08</a>	<a href="#">6EKSV9PP-15</a>	-	-
200/pack	-	-	<a href="#">6EKSHV8-1</a>	<a href="#">6EKSHV8-2</a>
Kit includes	Cat. no.	Cat. no.	Cat. no.	Cat. no.
Kit vial	<a href="#">6ERV1108PPFB</a>	<a href="#">6ESV9-1PP</a>	-	-
Kit closure	<a href="#">6ERC11PE</a>	<a href="#">6ESC9-50</a>	-	-



## Specification-certified kits (continued)





### Specification-certified shell, screw vial and cap kits (continued)

Performance level 1 for everyday analysis

#### Description

- Specification-certified



Vial color and material	Clear PP shell vial	Clear PP shell vial	Clear glass shell vial	Clear glass shell vial	Clear glass shell vial
Vial total volume	1.0 mL	4.0 mL	1.0 mL	1.25 mL	4.0 mL
Cap color and material	PE sepcap	PE sepcap	PE plug	N/A	PE sepcap
Vial dimensions (diameter x height)	8 x 40 mm	15 x 45 mm	8 x 35 mm	8 x 40 mm	15 x 45 mm
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	-	<a href="#">C4015-47P</a>	-	-	<a href="#">C4015-48</a>
250/pack 	<a href="#">C4015-95P</a>	-	-	-	-
500/pack 	-	-	-	<a href="#">1-NWV</a>	-
1000/pack 	-	-	<a href="#">C4008-50</a>	-	-



# Classical (8-425 screw thread) vials, caps and kits

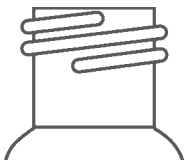
## Classical 8 mm/8-425 screw thread vials

Performance level 1 for everyday analysis

### Description

- Classical 8 mm/8-425 screw thread
- Narrow neck opening
- 12 mm × 32 mm (diameter × height) flat bottom base
- Specification-certified

For use with 8 mm screw caps



Key attributes	Fixed conical insert	Conical tapered insert	Mandrel insert	High-recovery insert
Vial color and material	Clear PP	Clear PP	Clear PP	Clear PP
Vial total volume	0.3 mL	0.6 mL	0.5 mL	0.75 mL
Usable volume	0.25 mL	0.4 mL	0.3 mL	0.67 mL
Residual volume	4 µL	3 µL	2 µL	8 µL
Ordering information	Cat. no.		Cat. no.	Cat. no.
100/pack	<a href="#">C4013-11</a>	-	-	-
1000/pack	-	<a href="#">500 114</a>	<a href="#">200 264</a>	<a href="#">C4013-13</a>



# Classical (8-425 screw thread) vials, caps and kits (continued)

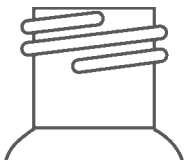
## Classical 8 mm/8-425 screw thread caps (continued)



Performance level 1 for everyday analysis

### Description

- Screw thread closure (8 mm/8-425)
- Specification-certified

For use with 2 mL screw vials (and other vials with screw 8 mm/8-425 dimensions)



Key attributes	Open top flange	Thinned penetration area	Thinned penetration area
Cap color and material	Black PP	Yellow PE	Clear PE
Septum color and material	Septum not included	Integral septum	Integral septum
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack 	-	-	<a href="#">C4013-5A</a>
1000/pack 	<a href="#">500 292</a>	<a href="#">500 206</a>	-



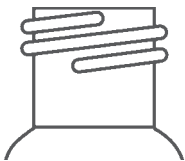
# Classical (8-425 screw thread) vials, caps and kits (continued)


## Classical 8 mm/8-425 screw thread vial and cap kit (continued)

Performance level 1 for everyday analysis

### Description

- Screw thread closure (8 mm/8-425)
- Narrow opening
- Specification-certified



Key attributes	Suitable for PFAS
	Thinned penetration area
	Fixed conical insert
Vial color and material	Clear PP
Vial total volume	0.6 mL
Cap color and material	Yellow PP
Septum color and material	Integral septum
Ordering information	Cat. no.
100/pack 	<a href="#">C4015-100</a>



## Caps and vial racks


Performance level 1 for everyday analysis

### Description

- 8 mm snap cap
- Specification-certified

For use with 8 mm crimp/snap vials



Key attributes	Thinned penetration area
Cap color and material	Clear PE
Septum color and material	Integral septum, PE
Ordering information	Cat. no.
100/pack 	<a href="#">8-PEC1</a>



## Caps and vial racks (continued)


### Performance level 1 for everyday analysis

#### Description

- 20 mm for 20-400 screw thread vials
- Specification-certified

For use with 20-400 screw thread vials



Key attributes	Open top
Cap color and material	Black PP
Septum color and material	Septum not included
Ordering information	Cat. no.
100/pack 	<a href="#">B7807-20</a>



## Caps and vial racks (continued)


### Performance level 1 for everyday analysis

#### Description

- For 12 × 32 mm vials
- 50 cavities (5 × 10)
- No lid, reusable 20 × 10.5 × 2.2 cm (height × width × depth)

Use with 2 mm vials



Product description	Vial rack
Color and material	Blue PP
Ordering information	Cat. no.
1/pack 	<a href="#">6EVR1232B</a>

# Performance level 2: High-throughput analysis

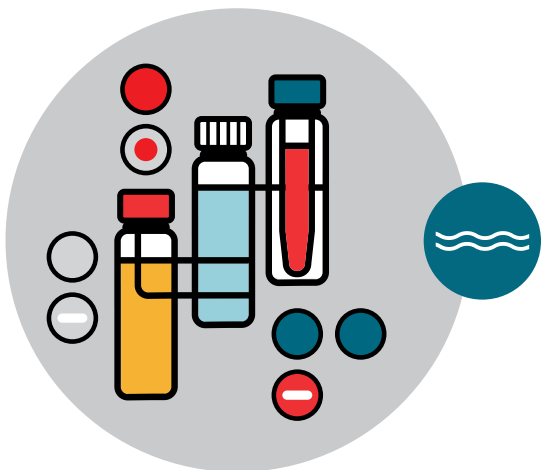
## When robustness and reproducibility are key

### Be compliant-ready for your high-throughput samples in regulated environments

Choose Thermo Scientific SureSTART Performance level 2 products to ensure high quality data with an uninterrupted workflow in high throughput applications using GC, HPLC/UHPLC, single or triple quadrupole MS systems. Use these Performance level 2 vials for routine QA/QC applications, where the analyte levels are achievable or close to the method detection level. These products have very low metal content and extractables and leachables and conform to high standards so that you can meet your regulatory requirements. They are Specification-certified to ensure their physical dimensions and autosampler compatibility.

If you need products that support routine analyses, our Performance level 2 products are here for you. Select the products with the two waves.

Within Performance level 2 you will find a selection of kits (including our range of U.S. Environmental Protection Agency (EPA) and Scintillation), vials, caps, inserts, septa and stoppers.



#### Performance level 2

##### for high-throughput applications

- All products within this Performance level are suitable for GC, HPLC/UHPLC, and mass spectrometry (MS) applications
- Volume sizes ranging from 0.3 mL to 20 mL covering limited sample volumes to headspace analyses
- Headspace vials and caps available from 10 mL – 20 mL
- Vials are identified by two waves and a convenient write-on patch as standard
- Vials available as screw, snap and crimp
- Vials available in glass, silanized glass and plastic
- Vials available as clear or amber glass
- Caps available as screw, screw AVCS, snap and crimp
- Use Thermo Scientific manual or electronic crimpers and decrimpers for easy application and removal of crimp caps
- EPA, scintillation and specification-certified kits are available under Performance level 2
- Buy vials and caps in bulk for greater savings

#### Specification-certified

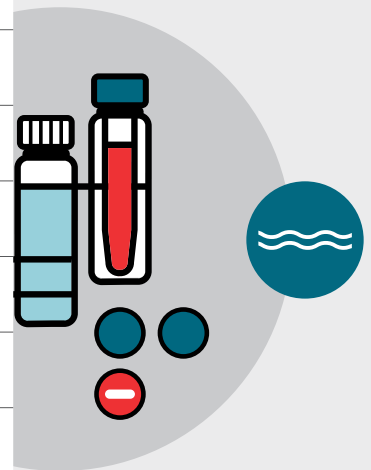
- All Thermo Scientific SureSTART vials are dimensionally verified to ensure autosampler compatibility
- Inspected by automated optical and gauge inspection to ensure critical dimensions and tolerances
- Vials meet all requirements of USP (US), EP (EU), and JP (Japan) pharmacopoeias

#### Lot traceable

- 100% traceable through the manufacturing process
- Certificate of Conformance available by lot number upon request

# Performance level 2: High-throughput analysis

Vials	Caps
0.7 mL glass crimp vials	8 mm crimp caps
1.7 mL high-recovery glass screw vials	9 mm screw caps
2 mL glass screw vials	
2 mL glass crimp vials	11 mm crimp caps
2 mL glass snap vials	11 mm snap caps 11 mm crimp caps
Inserts for 2 mL vials	—
4 mL glass screw vials	13 mm screw caps
8 mL glass screw vials	15 mm screw caps
10 mL glass screw headspace vials	18 mm screw caps
10 mL glass crimp headspace vials	20 mm crimp caps
12 mL glass screw vials	15 mm screw caps
20 mL glass screw vials	18 mm screw caps
20 mL glass crimp headspace vials	20 mm crimp caps
20 mm stoppers and septa	
40 mL glass screw vials	24 mm screw caps
Kits	
Specification-certified	
EPA	





# Screw vials and associated caps

(<2 mL – 2 mL vials, 8 mm caps)

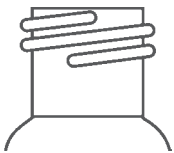
## 0.7 mL glass crimp microvials for <2 mL samples


Performance level 2 for high-throughput applications

### Description

- Crimp
- Conical base
- Specification-certified

For use with 8 mm crimp caps



Vial color and material	Amber glass
Total volume	0.7 mL
Usable volume	0.6 mL
Residual volume	2 µL
Ordering information	Cat. no.
100/pack 	<a href="#">6ACV8-07C2</a>



# Screw vials and associated caps (continued)

## (<2 mL – 2 mL vials, 9 mm caps)

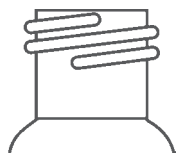
### 1.7 mL high-recovery glass screw vials for <2 mL samples

Performance level 2 for high-throughput applications

#### Description

- Short thread screw
- 12 mm x 32 mm (diameter x height) inner V-bottom base
- Marking spot
- Specification-certified

For use with 9 mm screw caps, or 9 mm AVCS screw caps



Vial color and material	Clear glass
Total volume	1.7 mL
Usable volume	1.3 mL
Residual volume	4 µL
Ordering information	Cat. no.
100/pack 	<a href="#">6ASV9-V1</a>
10 x 100/pack 	<a href="#">6ASV9-V1T</a>



# Screw vials and associated caps (continued)

## (<2 mL – 2 mL vials, 9 mm caps)

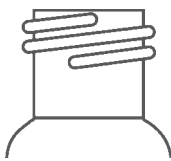
### 2 mL glass screw vials




Performance level 2 for high-throughput applications

#### Description

- Short thread screw
- 12 mm x 32 mm (diameter x height) flat bottom base
- Marking spot
- Specification-certified

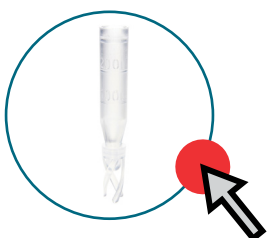
For use with 9 mm screw caps, or 9 mm AVCS screw caps



Vial color and material	Clear glass	Amber glass	Amber glass, silanized
Total volume	2.0 mL	2.0 mL	2.0 mL
Usable volume	1.5 mL	1.5 mL	1.5 mL
Residual volume	170 µL	170 µL	170 µL
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6ASV9-1P</a>	<a href="#">6ASV9-2P</a>	<a href="#">6ASV9-S2P</a>
10 x 100/pack 	<a href="#">6ASV9-1PT</a>	<a href="#">6ASV9-2PT</a>	-
50 x 100/pack 	<a href="#">6ASV9-1PF</a>	<a href="#">6ASV9-2PF</a>	-

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# Screw vials and associated caps (continued)

(<2 mL – 2 mL vials, 9 mm caps)

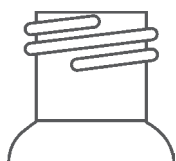
## 9 mm AVCS screw caps



Performance level 2 for high-throughput applications

### Description

- Short thread screw
- 9 mm
- Specification-certified
- AVCS screw top technology

For use with <2 mL and 2 mL screw vials



Key attributes	Suitable for PFAS analysis	Pre-slit septum, bonded	Bonded	Close top cap
Cap color and material	Blue PP	Blue PP	Blue PP	Blue PP
Septum color and material	White silicone/ red polyimide	White silicone/ beige PTFE	White silicone/ beige PTFE	Red rubber/ ivory PTFE
Septum thickness	1.0 mm	1.0 mm	1.0 mm	1.0 mm
Septum hardness	45° shore	45° shore	45° shore	45° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack	<a href="#">6ASC9SPI1</a>	<a href="#">6ASC9STBS1</a>	<a href="#">6ASC9STB1</a>	<a href="#">6ASC9CTRRT1</a>
10 x 100/pack 	-	<a href="#">6ASC9STBS1T</a>	<a href="#">6ASC9STB1T</a>	-
50 x 100/pack 	-	<a href="#">6ASC9STBS1F</a>	<a href="#">6ASC9STB1F</a>	-



# Screw vials and associated caps (continued)

(<2 mL – 2 mL vials, 9 mm caps)

## 9 mm AVCS screw caps (continued)




Performance level 2 for high-throughput applications

### Description

- Short thread screw
- 9 mm
- Specification-certified
- AVCS screw top technology

For use with <2 mL and 2 mL screw vials



Cap color and material	Blue PP	Blue PP	Red PP	Red PP
Septum color and material	Red rubber/ivory PTFE	White silicone/red PTFE	White silicone/red PTFE	Red rubber/ivory PTFE
Septum thickness	1.0 mm	1.0 mm	1.0 mm	1.0 mm
Septum hardness	45° shore	45° shore	45° shore	45° shore
Ordering information	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack 	<a href="#">6ASC9RT1</a>	<a href="#">6ASC9ST1</a>	<a href="#">6ASC9ST1R</a>	<a href="#">6ASC9RT1R</a>
10 x 100/pack 	<a href="#">6ASC9RT1T</a>	<a href="#">6ASC9ST1T</a>	<a href="#">6ASC9ST1RT</a>	<a href="#">6ASC9RT1RT</a>
50 x 100/pack 	<a href="#">6ASC9RT1F</a>	<a href="#">6ASC9ST1F</a>	<a href="#">6ASC9ST1RF</a>	<a href="#">6ASC9RT1RF</a>



# Screw vials and associated caps (continued)

## (<2 mL – 2 mL vials, 9 mm caps)

### 9 mm AVCS screw caps (continued)

Performance level 2 for high-throughput applications

Description
<ul style="list-style-type: none"><li>• Short thread screw</li><li>• 9 mm</li><li>• Specification-certified</li><li>• AVCS screw top technology</li></ul>

For use with <2 mL and 2 mL screw vials



Cap color and material	Green PP	Green PP	Yellow PP	Yellow PP
Septum color and material	White silicone/red PTFE	Red rubber/ivory PTFE	White silicone/red PTFE	Red rubber/ivory PTFE
Septum thickness	1.0 mm	1.0 mm	1.0 mm	1.0 mm
Septum hardness	45° shore	45° shore	45° shore	45° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack	<a href="#">6ASC9ST1G</a>	<a href="#">6ASC9RT1G</a>	<a href="#">6ASC9ST1Y</a>	<a href="#">6ASC9RT1Y</a>



# Screw vials and associated caps (continued)

## (<2 mL – 2 mL vials, 9 mm caps)

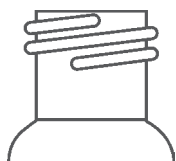
### 9 mm AVCS screw caps (continued)

Performance level 2 for high-throughput applications

#### Description

- Short thread screw
- 9 mm
- Specification-certified
- AVCS screw top technology

For use with <2 mL and 2 mL screw vials



Cap color and material	Black PP	Black PP
Septum color and material	White silicone/red PTFE	Red rubber/ivory PTFE
Septum thickness	1.0 mm	1.0 mm
Septum hardness	45° shore	45° shore
Ordering information	Cat. no.	Cat. no.
100/pack	<a href="#">6ASC9ST1B</a>	<a href="#">6ASC9RT1B</a>



# Crimp vials and associated caps

## (<1 mL vials)

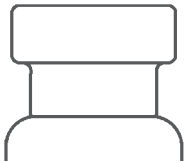
### 0.8 mL glass crimp vials


Performance level 2 for high-throughput applications

#### Description

- Crimp
- 7 mm x 40 mm (diameter x height) flat bottom base
- Specification-certified

For use with 8 mm crimp caps



Vial color and material	Clear glass
Total volume	0.8 mL
Usable volume	650 µL
Residual volume	11 µL
Ordering information	Cat. no.
100/pack 	<a href="#">C4008-741</a>



# Crimp vials and associated caps (continued)

## (<2 mL vials, 11 mm caps)

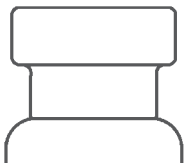
### 2 mL glass crimp vials




Performance level 2 for high-throughput applications

#### Description

- Crimp
- 12 mm x 32 mm (diameter x height) flat bottom base
- Marking spot
- Specification-certified

For use with 11 mm crimp caps



Vial color and material	Clear glass	Amber glass
Total volume	2.0 mL	2.0 mL
Usable volume	1.7 mL	1.7 mL
Residual volume	170 µL	170 µL
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6ACV11-1P</a>	<a href="#">6ACV11-2P</a>
10 x 100/pack 	<a href="#">6ACV11-1PT</a>	<a href="#">6ACV11-2PT</a>
50 x 100/pack 	<a href="#">6ACV11-1PF</a>	<a href="#">6ACV11-2PF</a>



# Crimp vials and associated caps (continued)

## (<1 mL vials, 8 mm caps)

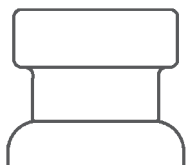
### 8 mm crimp caps


Performance level 2 for high-throughput applications

#### Description

- 8 mm crimp caps
- Specification-certified

For use with 8 mm crimp vials



Cap color and material	Silver aluminium	Silver aluminium
Septum color and material	Red natural rubber/clear PTFE	White silicone/red PTFE
Septum thickness	1.0 mm	1.3 mm
Septum hardness	60° shore	45° shore
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">C4008-1A</a>	<a href="#">C4008-4A</a>



# Crimp vials and associated caps (continued)

## (<2 mL vials, 11 mm caps)

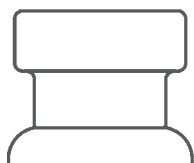
### 11 mm crimp caps

Performance level 2 for high-throughput applications

#### Description

- Crimp closure (11 mm)
- Specification-certified

For use with <2 mL – 2 mL crimp vials, or <2 mL – 2 mL snap vials  
 Use with 11 mm crimpers and decrimpers



Cap color and material	Silver aluminum closure	Silver aluminum closure	Silver aluminum closure
Septum color and material	White silicone/red PTFE	Red rubber/clear PTFE	Natural red rubber/TEF
Septum thickness	1.0 mm	1.0 mm	1.0 mm
Septum hardness	45° shore	60° shore	60° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack	<a href="#">6ACC11ST1</a>	<a href="#">6ACC11RT1</a>	<a href="#">6ACC11NR1</a>
10 x 100/pack	<a href="#">6ACC11ST1T</a>	<a href="#">6ACC11RT1T</a>	-
50 x 100/pack	<a href="#">6ACC11ST1F</a>	<a href="#">6ACC11RT1F</a>	-



# Crimp vials and associated caps (continued)

## (<2 mL vials, 11 mm caps)

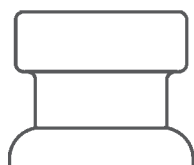
### 11 mm crimp caps (continued)


Performance level 2 for high-throughput applications

#### Description

- Crimp closure (11 mm)
- Specification-certified

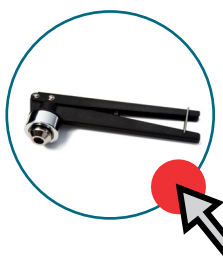
For use with <2 mL – 2 mL crimp vials, or <2 mL – 2 mL snap vials  
 Use with 11 mm crimpers and decrimpers



Cap color and material	Green/silver aluminum closure	Red/silver aluminum closure	Blue/silver aluminum closure	Gold/silver aluminum closure
Septum color and material	Natural red rubber/TEF	Natural red rubber/TEF	Natural red rubber/TEF	Natural red rubber/TEF
Septum thickness	1.0 mm	1.0 mm	1.0 mm	1.0 mm
Septum hardness	60° shore	60° shore	60° shore	60° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.	
100/pack 	<a href="#">6ACC11NR1G</a>	<a href="#">6ACC11NR1R</a>	<a href="#">6ACC11NR1B</a>	<a href="#">6ACC11NR1Y</a>

#### Learn more about:

Manual and electronic crimpers and decrimpers





# Snap vials and associated caps

## (2 mL vials, 11 mm caps)

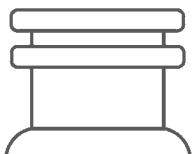
### 2 mL glass snap vials




Performance level 2 for high-throughput applications

#### Description

- Snap
- 12 mm x 32 mm (diameter x height) flat bottom base
- Marking spot
- Specification-certified

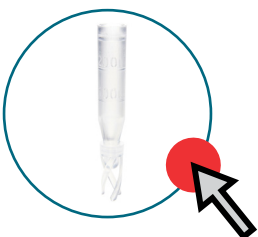
For use with 11 mm snap caps or 11 mm crimp caps



Vial color and material	Clear glass	Amber glass
Total volume	2.0 mL	2.0 mL
Usable volume	1.7 mL	1.7 mL
Residual volume	170 µL	170 µL
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack 	<a href="#">6ARV11-1P</a>	<a href="#">6ARV11-2P</a>
10 x 100/pack 	<a href="#">6ARV11-1PT</a>	<a href="#">6ARV11-2PT</a>
50 x 100/pack 	<a href="#">6ARV11-1PF</a>	<a href="#">6ARV11-2PF</a>

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# Snap vials and associated caps (continued)

## (2 mL vials, 11 mm caps)

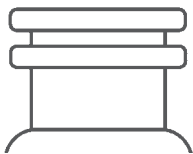
### 11 mm snap caps




Performance level 2 for high-throughput applications

#### Description

- Snap closure (11 mm)
- Specification-certified

For use with 11 mm glass or plastic snap vials



<b>Key attributes</b>	-	-	-	Suitable for PFAS analysis
<b>Cap color and material</b>	Blue PE	Blue PE	Blue PE	Blue PE
<b>Septum color and material</b>	White silicone/red PTFE	Natural rubber/clear TEF	Red rubber/clear PTFE	White silicone/red polyimide
<b>Septum thickness</b>	1.0 mm	1.0 mm	1.0 mm	1.0 mm
<b>Septum hardness</b>	45° shore	60° shore	60° shore	45° shore
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack 	<a href="#">6ARC11ST1</a>	<a href="#">6ARC11NRT1</a>	<a href="#">6ARC11RRT1</a>	<a href="#">6ARC11SPI1</a>
10 x 100/pack 	<a href="#">6ARC11ST1T</a>	<a href="#">6ARC11NRT1T</a>	-	-
50 x 100/pack 	<a href="#">6ARC11ST1F</a>	<a href="#">6ARC11NRT1F</a>	-	-



# Snap vials and associated caps (continued)

## (2 mL vials, 11 mm caps)

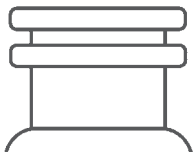
### 11 mm snap caps (continued)

Performance level 2 for high-throughput applications

#### Description

- Snap closure (11 mm)
- Specification-certified

For use with 11 mm glass or plastic snap vials



Cap color and material	Red PE	Red PE	Orange PE
Septum color and material	White silicone/red PTFE	Natural rubber/clear TEF	White silicone/red PTFE
Septum thickness	1.0 mm	1.0 mm	1.0 mm
Septum hardness	55° shore	60° shore	45° shore
Ordering information	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack	<a href="#">6ARC11ST1R</a>	<a href="#">6ARC11NRT1R</a>	<a href="#">6ARC11ST1OR</a>
10 x 100/pack	<a href="#">6ARC11ST1RT</a>	<a href="#">6ARC11NRT1RT</a>	<a href="#">6ARC11ST1ORT</a>
50 x 100/pack	<a href="#">6ARC11ST1RF</a>	-	-



# Snap vials and associated caps (continued)

## (2 mL vials, 11 mm caps)

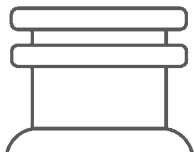
### 11 mm snap caps (continued)

Performance level 2 for high-throughput applications

#### Description

- Snap closure (11 mm)
- Specification-certified

For use with 11 mm glass or plastic snap vials



Cap color and material	Clear PE	Clear PE	Clear PE	Black PE
Septum color and material	Red silicone rubber/ clear PTFE	White silicone/red PTFE	White virgin PTFE	White silicone/red PTFE
Septum thickness	1.0 mm	1.0 mm	0.25 mm	1.0 mm
Septum hardness	60° shore	45° shore	53° shore	45° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6ARC11RRT1C</a>	<a href="#">6ARC11ST1C</a>	<a href="#">6ARC11-P</a>	<a href="#">6ARC11ST1B</a>



# Screw vials and associated caps (continued)

## (4 mL vials, 9 mm caps)

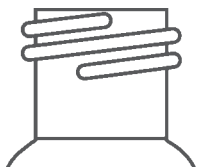
### 4 mL glass screw vials


Performance level 2 for high-throughput applications

#### Description

- Screw
- 15 mm × 45 mm (diameter × height) flat base
- Specification-certified

For use with 9 mm screw caps or 9 mm AVCS screw caps



Vial color and material	Clear glass
Total volume	4.0 mL
Usable volume	3.5 mL
Residual volume	500 µL
Ordering information	Cat. no.
100/pack 	<a href="#">4-SVQ</a>



# Screw vials and associated caps (continued)

## (4 mL vials, 13 mm caps)

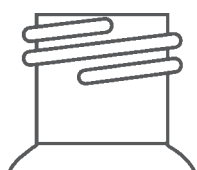
### 4 mL glass screw vials


Performance level 2 for high-throughput applications

#### Description

- Screw
- 15 × 45 mm (diameter × height) flat base
- Specification-certified

For use with 13 mm screw caps (13-425)



Vial color and material	Clear glass	Amber glass
Total volume	4.0 mL	4.0 mL
Usable volume	3.5 mL	3.5 mL
Residual volume	800 µL	800 µL
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6ASV13-1P</a>	<a href="#">6ASV13-2P</a>



# Screw vials and associated caps (continued)

## (4 mL vials, 13 mm caps)

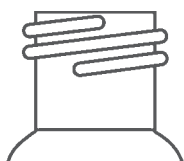
### 13 mm screw caps


Performance level 2 for high-throughput applications

#### Description

- Screw thread closure (13 mm/13-425)
- Specification-certified

For use with 4 mL screw vials (and other vials with screw 13 mm dimensions)



Key attributes	-	Pre-slit septum
Cap color and material	Black PP	White PP
Septum color and material	White silicone/red PTFE	White silicone/blue PTFE
Septum thickness	1.5 mm	1.5 mm
Septum hardness	55° shore	55° shore
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6ASC13ST15</a>	<a href="#">6PSC13STS15W</a>



# Screw vials and associated caps (continued)

## (4 mL vials, 13 mm caps)

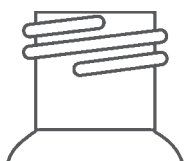
### 13 mm screw caps


Performance level 2 for high-throughput applications

#### Description

- Screw thread closure (13 mm/13-425)
- Specification-certified

For use with 4 mL screw vials (and other vials with screw 13 mm dimensions)



Cap color and material	Closed top White polyurethane	Closed top Black phenol
Septum color and material	White PE foam/beige PTFE	White silicon/beige PTFE
Septum thickness	1.3 mm	1.3 mm
Septum hardness	75° shore	45° shore
Ordering information	Cat. no.	
100/pack 	<a href="#">6ASC13-CTP</a>	<a href="#">200 568</a>



# Headspace screw vials and associated caps (10 mL vials, 18 mm caps)

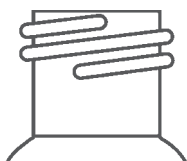
## 10 mL glass screw headspace vials

Performance level 2 for high-throughput applications

### Description

- Screw
- 22.5 mm × 46 mm (diameter × height) round bottom base
- Marking spot
- Specification-certified

For use with 18 mm screw caps



Vial color and material	Clear glass	Amber glass
Total volume	10 mL	10 mL
Usable volume	8 mL	8 mL
Residual volume	0.8 mL	0.8 mL
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack	<a href="#">6ASV10-1</a>	<a href="#">6ASV10-2</a>
10 x 100/pack	<a href="#">6ASV10-1T</a>	<a href="#">6ASV10-2T</a>
50 x 100/pack	<a href="#">6ASV10-1F</a>	-



# Headspace screw vials and associated caps (continued)

## (20 mL vials, 18 mm caps)

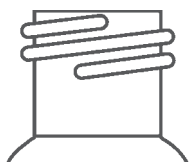
### 20 mL glass screw headspace vials




Performance level 2 for high-throughput applications

#### Description

- Screw
- 22.5 mm × 75.5 mm (diameter × height) round bottom base
- Marking spot
- Specification-certified

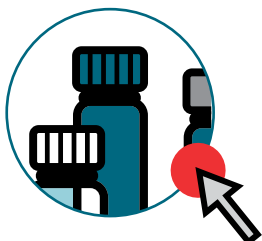
For use with 18 mm screw caps



Vial color and material	Clear glass	Amber glass
Total volume	20 mL	20 mL
Usable volume	18 mL	18 mL
Residual volume	0.8 mL	0.8 mL
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6ASV20-1</a>	<a href="#">6ASV20-2</a>
10 x 100/pack 	<a href="#">6ASV20-1T</a>	<a href="#">6ASV20-2T</a>
50 x 100/pack 	<a href="#">6ASV20-1F</a>	-

#### Looking for caps?

Our 18 mm precision screw caps are a perfect fit for these vials





# Headspace screw vials and associated caps (continued)

## (20 mL vials, 18 mm caps)

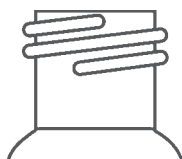
### 18 mm screw headspace caps


Performance level 2 for high-throughput applications

#### Description

- Screw cap 18 mm
- Specification-certified

For use with 10 mL and 20 mL screw headspace vials (with neck size of 18 mm)



Key attributes	Magnetic
Cap color and material	Silver steel
Septum color and material	Blue chlorobutyl/blue PTFE
Septum thickness	3.0 mm
Septum hardness	52° shore
Ordering information	Cat. no.
125/pack 	<a href="#">18-MS-CBT3</a>



# Headspace crimp vials and associated caps (10 mL – 20 mL vials, 20 mm caps)

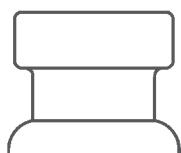
## 10 mL glass crimp headspace vials




Performance level 2 for high-throughput applications

### Description

- Crimp
- 22.50 mm × 46 mm (diameter × height) round bottom base with beveled edge rim
- Marking spot
- Specification-certified

For use with 20 mm crimp caps



Vial color and material	Clear glass	Amber glass
Total volume	10 mL	10 mL
Usable volume	8 mL	8 mL
Residual volume	0.8 mL	0.8 mL
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6ACV10-1R</a>	<a href="#">6ACV10-2R</a>
10 x 100/pack 	<a href="#">6ACV10-1RT</a>	<a href="#">6ACV10-2RT</a>
50 x 100/pack 	-	<a href="#">6ACV10-2RE</a>



# Headspace crimp vials and associated caps (continued)

## (10 mL – 20 mL vials, 20 mm caps)

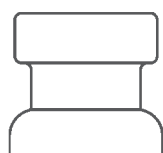
### 20 mL glass crimp headspace vials




Performance level 2 for high-throughput applications

#### Description

- Crimp
- 22.65 mm × 75 mm (diameter × height) round bottom base with beveled edge rim (Cat. no. 6ACV20-1R)
- 23 mm × 75.5 mm (diameter × height) round bottom base with beveled edge rim (Cat. no. 6ACV20-1PE, 6ACV20-2PE)
- Marking spot
- Specification-certified

For use with 20 mm crimp caps



Vial color and material	Clear glass	Clear glass	Amber glass
Vial diameter and length	22.65 × 75.5	23 × 75.5	23 × 75.5
Total volume	20 mL	20 mL	20 mL
Usable volume	18 mL	18 mL	18 mL
Residual volume	0.8 mL	0.8 mL	0.8 mL
Ordering information	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack 	<a href="#">6ACV20-1R</a>	<a href="#">6ACV20-1PE*</a>	<a href="#">6ACV20-2PE*</a>
10 x 100/pack 	<a href="#">6ACV20-1RT</a>	<a href="#">6ACV20-1PET*</a>	<a href="#">6ACV20-2PET*</a>
50 x 100/pack 	<a href="#">6ACV20-1RF</a>	<a href="#">6ACV20-1PEF*</a>	-

\* Only for Fit PerkinElmer instruments



# Headspace crimp vials and associated caps (continued)

## (10 mL – 20 mL vials, 20 mm caps)

### 20 mm crimp caps

Performance level 2 for high-throughput applications




#### Description

- Crimp closure (20 mm)
- Specification-certified

For use with 10 mL and 20 mL crimp headspace vials (with neck size of 20 mm)

Use with 20 mm crimpers and decrimpers



Key attributes	-	-	-	Magnetic	Magnetic
	-	-	Pressure release	Soft septum	Suitable for high temperature
Cap color and material	Silver aluminum	Silver aluminum	Silver aluminum	Gold steel	Silver steel
Septum color and material	Black butyl/ grey PTFE/ molded PharmaFix	White silicone/ beige PTFE	White silicone/ beige PTFE	Blue silicone/ clear PTFE	Red silicone/ natural PTFE
Septum thickness	3.0 mm	3.2 mm	3.2 mm	3.0 mm	3.0 mm
Septum hardness	50° shore	45° shore	45° shore	40° shore	55° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6ACC20-PFT</a>	<a href="#">6ACC20-ST1</a>	<a href="#">6APRCC20-ST1</a>	<a href="#">6AMCC20-ST3</a>	<a href="#">6AMCC20-STH</a>
10 x 100/pack 	<a href="#">6ACC20-PFTT</a>	<a href="#">6ACC20-ST1T</a>	<a href="#">6APRCC20-ST1T</a>	<a href="#">6AMCC20-ST3T</a>	<a href="#">6AMCC20-STHT</a>
50 x 100/pack 	-	<a href="#">6ACC20-ST1F</a>	<a href="#">6APRCC20-ST1F</a>	-	<a href="#">6AMCC20-STHF</a>

#### Learn more about:

Manual and electronic crimpers and decrimpers





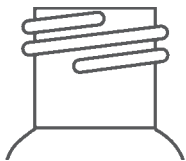
# Headspace screw vials and associated caps (20 mL, 18 mm caps)


## Screw vial and cap kits

Performance level 2 for high-throughput applications

### Description

- Screw thread
- Specification-certified
- 22.5 × 75.5 (diameter × height) headspace round bottom base



Vial color and material	Clear glass
Vial total volume	20 mL
Cap color and material	Silver stainless steel open top screw cap, magnetic
Septum color and material	Blue silicone/clear PFTE
Septum thickness	2 mm
Septum hardness	45° shore
Ordering information	Cat. no.
100/pack 	<a href="#">6AKHSVST201</a>
Kit includes	Cat. no.
Kit vial	<a href="#">6ASV20-1</a>
Kit closure	<a href="#">6PMSC18-ST2</a>



# Stoppers and septa

## 8 mm septa



Performance level 2 for high-throughput applications

### Description

- Specification-certified

For use with 8 mm crimp or screw thread caps



Septum color and material	White silicone/red PTFE	White silicone/red PTFE	Tan silicone/white PTFE
Septum thickness	1.3 mm	1.5 mm	1.5 mm
Septum hardness	45° shore	45° shore	45° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">C4013-60</a>	-	-
1000/pack 	-	<a href="#">200 344</a>	<a href="#">C4013-61</a>



# Stoppers and septa (continued)

## 13–18 mm stoppers and septa


Performance level 2 for high-throughput applications

### Description

- Specification-certified

For use with vials with neck size 13 mm, 15 mm and 18 mm



Product description	Septum (12 mm)	Septum (13 mm)	Septum (13 mm)	Septum (15 mm)	Septum (18 mm)
Color and material	White silicone/ red PTFE	White silicone/ red PTFE	Clear silicone/ white PTFE	Clear silicone/ white PTFE	Clear silicone/ white PTFE
Septum thickness	2.0 mm	1.5 mm	1.5 mm	2.6 mm	1.5 mm
Septum hardness	45° shore	50° shore	50° shore	50° shore	50° shore
Ordering information	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack 	-	<a href="#">C4015-60</a>	<a href="#">B7995-13</a>	<a href="#">B7995-15</a>	<a href="#">B7995-18</a>
500/pack 	<a href="#">12-ST2</a>	-	-	-	-



# Stoppers and septa (continued)

## 20 mm stoppers and septa

Performance level 2 for high-throughput applications

### Description

- Specification-certified

For use with vials (e.g. 10 mL/20 mL crimp vials) with diameter neck size of 20 mm



Product description	Stopper (20 mm)	Septum (20 mm)	Septum (20 mm)	Septum (20 mm)
Color and material	Grey bromobutyl	White silicone/ beige PTFE	Black butyl/ grey PTFE molded PharmaFix™	Blue silicone/ clear PTFE, soft
Septum thickness	3.0 mm	3.2 mm	3.0 mm	3.0 mm
Septum hardness	45° shore	45° shore	50° shore	40° shore
Ordering information	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack	<a href="#">6A20BS</a>	<a href="#">6A20ST1</a>	<a href="#">6A20CBT3</a>	-
500/pack	-	-	-	<a href="#">20-ST3</a>
10 x 100/pack	<a href="#">6A20BST</a>	<a href="#">6A20ST1T</a>	-	-
50 x 100/pack	<a href="#">6A20BSF</a>	<a href="#">6A20ST1F</a>	-	-



# EPA vials and caps

## 8 mL EPA screw vials

Performance level 2 for high-throughput applications

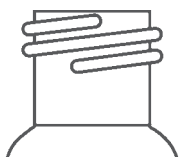
### Description


- Screw (15-425)
- 17 × 60 mm (diameter × height) flat base
- Specification-certified - Level 100 EPA vials

For use with 15 mm screw caps

These are processed and packaged under a strict registered ISO Quality Management System. The products are not certified to EPA standards or pre-cleaned. Every case of product is labeled with its production number and is custody sealed to ensure reliable chain-of-custody.

EPA screw vials convenience kits are recommended for discrete water sampling under [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"



Vial color and material	Clear glass	Amber glass
Total volume	8 mL	8 mL
Usable volume	6 mL	6 mL
Residual volume	0.8 mL	0.8 mL
Ordering information	Cat. no.	Cat. no.
200/pack 	<a href="#">6ASV8EPA-1</a>	<a href="#">6ASV8EPA-2</a>



## 12 mL EPA screw vials

Performance level 2 for high-throughput applications

### Description

- Screw thread (15-425)
- 19 × 65 mm (diameter × height) flat base
- Specification-certified - Level 100 EPA vials

For use with 15 mm screw caps

These are processed and packaged under a strict registered ISO Quality Management System.

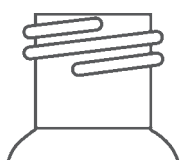
The products are not certified to EPA standards or pre-cleaned.


Every case of product is labeled with its production number and is custody sealed to ensure reliable chain-of-custody.

EPA screw vials convenience kits are recommended for discrete water sampling under

[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".



Vial color and material	Clear glass	Amber glass
Total volume	12 mL	12 mL
Usable volume	11 mL	11 mL
Residual volume	0.8 mL	0.8 mL
Ordering information	Cat. no.	Cat. no.
200/pack 	<a href="#">6ASV12EPA-1</a>	<a href="#">6ASV12EPA-2</a>



# EPA vials and caps (continued)

## 16 mL EPA screw vials

Performance level 2 for high-throughput applications

### Description

- Screw thread (18-400)
- 21 x 70 mm (diameter x height) flat base
- Specification-certified - Level 100 EPA certified

For use with 18 mm screw caps

These are processed and packages under a strict registered ISO Quality Management System.

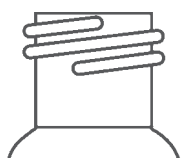
The products are not certified to EPA standards or pre-cleaned.


Every case of product is labeled with its production number and is custody sealed to ensure reliable chain-of-custody.

EPA screw vials convenience kits are recommended for discrete water sampling under

[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".



Vial color and material	Clear glass	Amber glass
Total volume	16 mL	16 mL
Usable volume	15 mL	15 mL
Residual volume	0.8 mL	0.8 mL
Ordering information	Cat. no.	Cat. no.
200/pack 	<a href="#">6ASV16EPA-1</a>	<a href="#">6ASV16EPA-2</a>



# EPA vials and caps (continued)

## 20 mL EPA screw vials

Performance level 2 for high-throughput applications

### Description

- Screw thread (20-400)
- 23 × 85 mm (diameter × height ) flat base
- Specification-certified - Level 100 EPA vials

For use with 20 mm screw caps

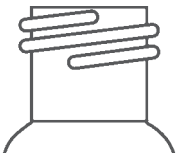
These are processed and packages under a strict registered ISO Quality Management System. The products are not certified to EPA standards or pre-cleaned.


Every case of product is labeled with its production number and is custody sealed to ensure reliable chain-of-custody.

EPA screw vials convenience kits are recommended for discrete water sampling under

[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".



Vial color and material	Clear glass
Total volume	20 mL
Usable volume	18 mL
Residual volume	0.8 mL
Ordering information	Cat. no.
100/pack 	<a href="#">6ASV20EPA-1</a>



# EPA vials and caps (continued)

## 40 mL EPA screw vials

Performance level 2 for high-throughput applications

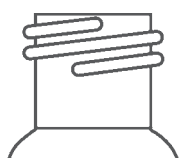
### Description


- Screw thread 24 mm (24-400)
- 28 × 95 mm (diameter × height) flat base
- Specification-certified - Level 100 EPA vials

For use with 24 mm screw caps

These are processed and packages under a strict registered ISO Quality Management System. The products are not certified to EPA standards or pre-cleaned. Every case of product is labeled with its production number and is custody sealed to ensure reliable chain-of-custody.

EPA screw vials convenience kits are recommended for discrete water sampling under [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".



Vial color and material	Clear glass	Amber glass
Total volume	40 mL	40 mL
Usable volume	38 mL	38 mL
Residual volume	0.8 mL	0.8 mL
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6ASV40EPA-1</a>	<a href="#">6ASV40EPA-2</a>



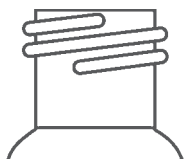
## 15 mm screw caps


Performance level 2 for high-throughput applications

### Description

- Short thread screw closure 15 mm (15-425)
- Specification-certified

For use with 8 and 12 mL screw vials (and other vials with screw 15 mm dimensions)



Cap color and material	White PP, close top
Septum color and material	PE foam/PTFE
Septum thickness	1.3 mm
Septum hardness	75° shore
Ordering information	Cat. no.
100/pack 	<a href="#">6ASC15-CTP</a>



# EPA vials and caps (continued)

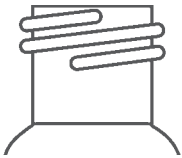
## 18 mm screw caps


Performance level 2 for high-throughput applications

### Description

- Screw closure 18 mm (18-400)
- Specification-certified

For use with 20 mL EPA screw vials (and other vials with screw 18 mm dimensions) except for 20 mL headspace vials



Cap color and material	White PP, close top
Septum color and material	PE foam/PTFE
Septum thickness	1.3 mm
Septum hardness	75° shore
Ordering information	Cat. no.
100/pack 	<a href="#">6ASC18-CTP</a>



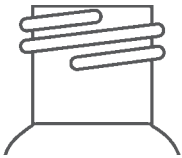
## 20 mm screw caps


Performance level 2 for high-throughput applications

### Description

- Screw closure 20 mm (20-400)
- Specification-certified

For use with screw vials (and other vials with screw 20 mm/20-400 dimensions)



Cap color and material	White PP, close top
Septum color and material	PE foam/PTFE
Septum thickness	1.3 mm
Septum hardness	75° shore
Ordering information	Cat. no.
100/pack 	<a href="#">B7815-20</a>



# EPA vials, caps and septa (continued)

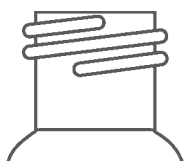
## 24 mm screw caps


Performance level 2 for high-throughput applications

### Description

- Screw closure 24 mm (24-400)
- Specification-certified

For use with 40 mL screw vials (and other vials with screw 24 mm dimensions)



Cap color and material	White PP, close top
Septum color and material	PE foam/PTFE
Septum thickness	1.3 mm
Septum hardness	75° shore
Ordering information	Cat. no.
100/pack 	<a href="#">6ASC24-CTP</a>



## Septa for EPA/storage vials


Performance level 2 for high-throughput applications

### Description

- Specification-certified

For use with screw vials with 20-400 or 24-400 screw thread closure



Product description	Septum (19.5 mm)	Septum (22 mm)
Color and material	Cream silicone/beige PTFE	Clear silicone/beige PTFE
Septum thickness	1.5 mm	2.6 mm
Septum hardness	50° shore	50° shore
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6A20ST20</a>	<a href="#">6A24ST26</a>



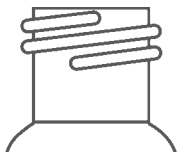
# Specification-certified vial and cap kits, EPA kits, and scintillation kits


## Specification-certified screw vial and cap kits

Performance level 2 for high-throughput applications

### Description

- 2 mL screw vial (9 mm) with short thread screw closure
- Marking spot
- Specification-certified



Key attributes	AVCS	AVCS	AVCS	AVCS	AVCS
Vial color and material	Clear glass	Amber glass	Clear glass	Clear glass	Amber glass
Vial total volume	2.0 mL	2.0 mL	2.0 mL	2.0 mL	2.0 mL
Cap color and material	Blue PP	Blue PP	Blue PP	Blue PP	Blue PP
Septum color and material	Red rubber/ ivory PTFE	Red rubber/ ivory PTFE	Red PTFE/white silicone/red PTFE	White silicone/ red PTFE	White silicone/ red PTFE
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6AK80W</a>	<a href="#">6AK82W</a>	<a href="#">6AK86W</a>	<a href="#">6AK92W</a>	<a href="#">6AK94W</a>
Kit include	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
Kit vial	<a href="#">6PSV9-1P</a>	<a href="#">6ASV9-2P</a>	<a href="#">6PSV9-1P</a>	<a href="#">6PSV9-1P</a>	<a href="#">6ASV9-2P</a>
Kit closure	<a href="#">6ASC9RT1</a>	<a href="#">6ASC9RT1</a>	<a href="#">6PSC9TST</a>	<a href="#">6ASC9ST1</a>	<a href="#">6ASC9ST1</a>



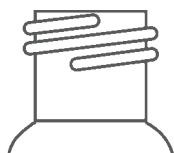
# Specification-certified vial and cap kits, EPA kits, and scintillation kit (continued)

## Specification-certified screw vial and cap kits (continued)

Performance level 2 for high-throughput applications

### Description

- 2 mL screw vial (9 mm) with short thread screw closure
- Marking spot
- Specification-certified



Key attributes	AVCS	AVCS
Vial color and material	Clear glass	Clear glass
Vial total volume	2.0 mL	2.0 mL
Cap color and material	Blue PP	Blue PP
Septum color and material	White silicone/blue PTFE slit	Blue silicone/clear PTFE
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6AK95W</a>	<a href="#">6AK599W</a>
Kit includes	Cat. no.	Cat. no.
Kit vial	<a href="#">6PSV9-1P</a>	<a href="#">6ASV9-1P</a>
Kit closure	<a href="#">6PSC9STS1</a>	<a href="#">6PSC9ST101</a>



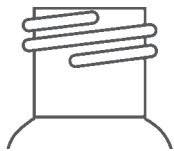
# Specification-certified vial and cap kits, EPA kits, and scintillation kits (continued)


## Specification-certified screw vial and cap kits (continued)

Performance level 2 for high-throughput applications

### Description

- 2 mL screw vial (9 mm) with short thread screw closure
- Marking spot
- Specification-certified



<b>Key attributes</b>	SureStop/AVCS	SureStop/AVCS	SureStop/AVCS
	-	-	Pre-slit septum
<b>Vial color and material</b>	Clear glass	Amber glass	Clear glass
<b>Vial total volume</b>	2.0 mL	2.0 mL	2.0 mL
<b>Cap color and material</b>	Blue PP	Blue PP	Blue PP
<b>Septum color and material</b>	White silicone/red PTFE	White silicone/red PTFE	White silicone/blue PTFE
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack 	<a href="#">6AK592W</a>	<a href="#">6AK594W</a>	<a href="#">6AK595W</a>
<b>Kit includes</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
<b>Kit vial</b>	<a href="#">6PSV9-1PSS</a>	<a href="#">6PSV9-2PSS</a>	<a href="#">6PSV9-1PSS</a>
<b>Kit closure</b>	<a href="#">6ASC9ST1</a>	<a href="#">6ASC9ST1</a>	<a href="#">6PSC9STS1</a>



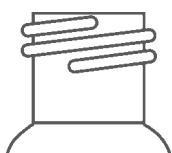
# Specification-certified vial and cap kits, EPA kits, and scintillation kit (continued)


## Specification-certified screw vial and cap kits (continued)

Performance level 2 for high-throughput applications

### Description

- 2 mL screw vial (9 mm) with short thread screw closure
- Marking spot
- Specification-certified



Key attributes	Bonded	Bonded
	Pre-slit septum	-
Vial color and material	Clear glass	Clear glass
Vial total volume	2.0 mL	2.0 mL
Cap color and material	Grey PP	Black PP
Septum color and material	White silicone/red PTFE	White silicone/red PTFE
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6AK93BW</a>	<a href="#">6AK78BW</a>
Kit includes	Cat. no.	Cat. no.
Kit vial	<a href="#">6PSV9-1P</a>	<a href="#">6PSV9-1P</a>
Kit closure	<a href="#">6PSC9STBS1</a>	<a href="#">6PSC9STB1</a>

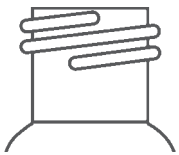


# Specification-certified vial and cap kits, EPA kits, and scintillation kits (continued)

## Specification-certified screw vial and cap kits (continued)

Performance level 2 for high-throughput applications

Description	
<ul style="list-style-type: none"> <li>&lt;2 mL screw (9 mm) and snap (11 mm) vials and caps</li> <li>Marking spot</li> <li>Specification-certified</li> </ul>	



Key attributes	Suitable for PFAS analysis	Suitable for PFAS analysis
Vial color and material	Clear PP snap vial with fixed insert	Clear PP screw thread vial
Vial total volume	0.8 mL	1.5 mL
Cap color and material	Blue PE, snap cap	Blue PP, screw cap
Septum color and material	White silicone/red polyimide	White silicone/red polyimide
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6AKRV11PP-08PI</a>	<a href="#">6AKSV9PP-15PI</a>
Kit includes	Cat. no.	Cat. no.
Kit vial	<a href="#">6ERV11-08PPFB</a>	<a href="#">6ESV9-1PP</a>
Kit closure	<a href="#">6ARC11SPI1</a>	<a href="#">6ASC9SPI1</a>



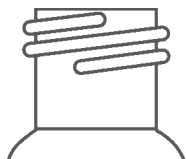
# Specification-certified vial and cap kits, EPA kits, and scintillation kits (continued)


## Specification-certified screw vial and cap kits (continued)

Performance level 2 for high-throughput applications

### Description

- Assembled 2 mL screw vial (9 mm) with short thread screw closure
- Marking spot
- Specification-certified



Vial color and material	Clear glass	Clear glass	Amber glass
Vial total volume	2.0 mL	2.0 mL	2.0 mL
Cap color and material	Blue PP	Blue PP	Blue PP
Septum color and material	Red rubber/ivory PTFE	Red PTFE/white silicone/red PTFE	Red PTFE/white silicone/red PTFE
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6AK180W</a>	<a href="#">6AK186W</a>	<a href="#">6AK188W</a>
Kit includes	Cat. no.	Cat. no.	Cat. no.
Kit vial	<a href="#">6PSV9-1P</a>	<a href="#">6PSV9-1P</a>	<a href="#">6ASV9-2P</a>
Kit closure	<a href="#">6ASC9RT1</a>	<a href="#">6PSC9TST</a>	<a href="#">6PSC9TST</a>



# Specification-certified vial and cap kits, EPA kits, and scintillation kits (continued)

## Specification-certified snap and crimp vial and cap kits (continued)

Performance level 2 for high-throughput applications

### Description

- Snap and crimp kits
- 11 mm snap/crimp
- Specification-certified



<b>Key attributes</b>	Snap	Snap	Crimp
<b>Vial color and material</b>	Clear glass	Clear glass	Amber glass
<b>Vial total volume</b>	2.0 mL	2.0 mL	2.0 mL
<b>Cap color and material</b>	Clear PE	Clear PE	Aluminium
<b>Septum color and material</b>	Red rubber/clear PTFE, 1.0 mm	White silicone/red PTFE 1.0 mm	Red natural rubber/clear TEF 1.0 mm
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack	-	<a href="#">C4011-73</a>	<a href="#">C4011-87</a>
500/pack	-	-	<a href="#">C4011-88</a>
2000/pack	<a href="#">C4011-551</a>	-	-

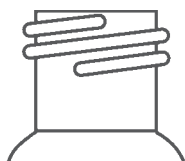



# Specification-certified vial and cap kits, EPA kits, and scintillation kits (continued)

## Specification-certified screw vial and cap kits (continued)

Performance level 2 for high-throughput applications

Description	
•	4 mL screw vial kits
•	13 mm (13-425) screw thread and caps
•	15 x 45 mm vial dimensions
•	Specification-certified



Key attributes	Assembled	Assembled	Assembled
	-	ID patch/ marking spot	ID patch/ marking spot
Vial color and material	Clear glass	Clear glass	Amber glass
Vial total volume	4.0 mL	4.0 mL	4.0 mL
Cap color and material	Black PP	Black PP	Black PP
Septum color and material	White silicone/red PTFE	White silicone/red PTFE	White silicone/red PTFE
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">C4015-17</a>	<a href="#">C4015-17W</a>	<a href="#">C4015-17AW</a>



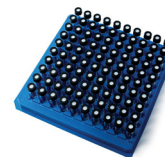
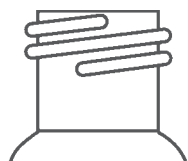
# Specification-certified vial and cap kits, EPA kits, and scintillation kits (continued)


## Specification-certified screw vial and cap kits (continued)

Performance level 2 for high-throughput applications

### Description

- 4 mL screw vial kits
- 13 mm (13-425) screw thread and caps
- Specification-certified



Key attributes	Not assembled	Assembled	Assembled
Vial color and material	Clear glass	Clear glass	Clear glass
Vial total volume	4.0 mL	4.0 mL	4.0 mL
Cap color and material	Black PP	Black PP	Black PP
Septum color and material	White silicone/red PTFE 1.5 mm	White silicone/red PTFE 1.5 mm	White virgin PTFE 0.25 mm
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">C4015-88</a>	<a href="#">200 630</a>	<a href="#">C4015-21</a>



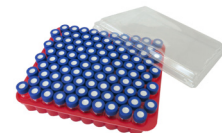
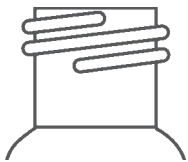
# Specification-certified vial and cap kits, EPA kits, and scintillation kits (continued)


## Specification-certified screw vial and cap kits (continued)

Performance level 2 for high-throughput applications

### Description

- Assembled 2 mL screw vial (9 mm) with short thread screw closure
- Marking spot
- Specification-certified



Key attributes	-	Pre-slit septum	Pre-slit septum
Vial color and material	Clear glass	Clear glass	Amber glass
Vial total volume	2.0 mL	2.0 mL	2.0 mL
Cap color and material	Blue PP	Blue PP	Blue PP
Septum color and material	White silicone/red PTFE	White silicone/blue PTFE	White silicone/blue PTFE
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6AK192W</a>	<a href="#">6AK195W</a>	<a href="#">6AK196W</a>
Kit includes	Cat. no.	Cat. no.	Cat. no.
Kit vial	<a href="#">6PSV9-1P</a>	<a href="#">6ASV9-1P</a>	<a href="#">6ASV9-2P</a>
Kit closure	<a href="#">6ASC9ST1</a>	<a href="#">6PSC9STS1</a>	<a href="#">6PSC9STS1</a>



# Specification-certified vial and cap kits, EPA kits, and scintillation kits (continued)

## EPA screw vial and cap kits

Performance level 2 for high-throughput applications

### Description

- 4 mL – 40 mL screw vials with screw closures (13 mm – 24 mm)
- Level 100 EPA vials

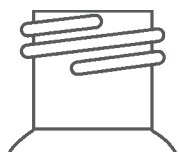
These are processed and packages under a strict registered ISO Quality Management System. The products are not certified to EPA standards or pre-cleaned.

Every case of product is labeled with its production number and is custody sealed to ensure reliable chain-of-custody.

EPA screw vials convenience kits are recommended for discrete water sampling under

[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".



Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass	Clear glass	Amber glass
Vial total volume	4 mL (13 mm)	4 mL (13 mm)	8 mL (15 mm)	8 mL (15 mm)	12 mL (15 mm)	12 mL (15 mm)
Cap color and material	White screw cap (PP) (13 mm) close top		White screw cap (PP) (15 mm) close top			
Septum color and material	PE foam/white PTFE closed top					
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack	<a href="#">6AK4CCT</a>	<a href="#">6AK4ACT</a>	-	-	-	-
200/pack	-	-	<a href="#">6AK8CCT</a>	<a href="#">6AK8ACT</a>	<a href="#">6AK12CCT</a>	<a href="#">6AK12ACT</a>
Kit includes	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
Kit vial	*	*	<a href="#">6ASV8EPA-1</a>	<a href="#">6ASV8EPA-2</a>	<a href="#">6ASV12EPA-1</a>	<a href="#">6ASV12EPA-2</a>
Kit closure	*	*	<a href="#">6ASC15-CTP</a>	<a href="#">6ASC15-CTP</a>	<a href="#">6ASC15-CTP</a>	<a href="#">6ASC15-CTP</a>

\* Not available as single part



# Specification-certified vial and cap kits, EPA kits, and scintillation kit (continued)

## EPA screw vial and cap kits (continued)

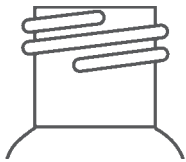
### Performance level 2 for high-throughput applications



#### Description

- 4 mL – 40 mL screw vials with screw closures (13 mm – 24 mm)
- Level 100 EPA vials

These are processed and packages under a strict registered ISO Quality Management System. The products are not certified to EPA standards or pre-cleaned. Every case of product is labeled with its production number and is custody sealed to ensure reliable chain-of-custody.

EPA screw vials convenience kits are recommended for discrete water sampling under [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".



<b>Key attributes</b>	Not assembled	Not assembled	Assembled	Assembled	Assembled
<b>Vial color and material</b>	Clear glass	Amber glass	Clear glass	Amber glass	Clear glass
<b>Vial total volume</b>	16 mL (18 mm 18-400)		20 mL (24 mm/24-400)		
<b>Cap color and material</b>	White screw cap (PP) (18 mm)		White screw cap (PP) (24 mm)		
<b>Septum color and material</b>	PE foam/white PTFE closed top				Clear silicone/white PTFE open top
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack 	-	-	<a href="#">6AK20CCTAS</a>	<a href="#">6AK20ACTAS</a>	<a href="#">6AK20COTAS</a>
200/pack 	<a href="#">6AK16CCT</a>	<a href="#">6AK16ACT</a>	-	-	-
<b>Kit includes</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
<b>Kit vial</b>	<a href="#">6ASV16EPA-1</a>	<a href="#">6ASV16EPA-2</a>	<a href="#">6ASV20EPA-1</a>	*	*
<b>Kit closure</b>	<a href="#">6ASC18-CTP</a>	<a href="#">6ASC18-CTP</a>	<a href="#">6ASC24-CTP</a>	<a href="#">6ASC24-CTP</a>	*

\* Not available as single part



# Specification-certified vial and cap kits, EPA kits, and scintillation kit (continued)


## EPA screw vial and cap kits (continued)

Performance level 2 for high-throughput applications


### Description

- 4 mL – 40 mL screw vials with screw closures (13 mm – 24 mm)
- Level 100 EPA vials



Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass
Vial total volume	40 mL (24 mm)			
Cap color and material	White screw cap (PP) (24 mm), assembled		White screw cap (PP) (24 mm)	
Septum color and material	Clear silicone/white PTFE open top		PE foam/white PTFE closed top	
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6AK40COTAS</a>	<a href="#">6AK40AOTAS</a>	<a href="#">6AK40CCT</a>	<a href="#">6AK40ACT</a>
Kit vial	<a href="#">6ASV40EPA-1</a>	<a href="#">6ASV40EPA-2</a>	<a href="#">6ASV40EPA-1</a>	<a href="#">6ASV40EPA-2</a>
Kit closure	*	*	<a href="#">6ASC24-CTP</a>	<a href="#">6ASC24-CTP</a>

\* Not available as single part

Key attributes	Scintillation
Vial color and material	Clear glass
Vial total volume	20 mL
Cap color and material	White closed top screw cap
Septum color and material	Silver PP foil
Ordering information	Cat. no.
5 x 100/pack 	<a href="#">6AK20SCIN</a>



# Storage vials, caps and kits

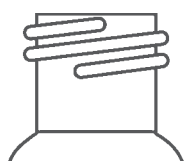
## Screw vials

Performance level 2 for high-throughput applications

### Description

- Specification-certified

For storage of liquid and/or powdered samples



Key attributes	Vial and cap kit, assembled	Round bottom	Powder vial	Round bottom
Vial color and material	Clear glass	Clear glass	Clear glass	Clear glass
Total volume	2.0 mL	5.0 mL	5.3 mL	10 mL
Thread style	10 mm/10-425	13 mm/13-425	14 mm	13 mm/13-425
Dimensions (diameter x height)	12 x 32 mm	13 x 65 mm	15 x 48 mm	13 x 100 mm
Cap color and material	Blue PP	N/A	N/A	N/A
Septum color and material	White silicone/ blue PTFE 1.5 mm	N/A	N/A	N/A
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack	<a href="#">C4010-018</a>	-	-	-
125/pack	-	<a href="#">5-SV</a>	-	<a href="#">10-SV</a>
175/pack	-	-	<a href="#">5.3-SV</a>	-



# Storage vials, caps and kits (continued)

## Screw vials (continued)



Performance level 2 for high-throughput applications

### Description

- Specification-certified

For use with vials with either 13 mm/13-425, 15mm/15-425, 15 mm/15-425, 18 mm/18-400, 24 mm/24-400 screw threads



Key attributes	Open top	Open top	Open top	Open top	Closed top
Thread size/style	13 mm/13-425	15 mm/15-425	15 mm/15-425	18 mm/18-400	24 mm/24-400
Vial color and material	Clear glass	Clear glass	Clear glass	Clear glass	Clear glass
Vial total volume	4 mL	8 mL	12 mL	16 mL	40 mL
Cap color and material	Black PP	Black PP	Black PP	Black PP	White PP
Septum color and material	Clear silicone/ white PTFE	Clear silicone/ white PTFE	Clear silicone/ white PTFE	Clear silicone/ white PTFE	Polyseal lined cap
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">B7990-2</a>	-	-	-	<a href="#">B7800-6PS</a>
200/pack 	-	<a href="#">B7990-3</a>	<a href="#">B7990-12</a>	<a href="#">B7990-4</a>	-



# Wash vial and cap kits

## 10 mL wash vial and cap kits

Performance level 2 for high-throughput applications

### Description


- 20 mm vial and cap kit
- Storage box clear polypropylene with lid 25 cavities
- 22.5 mm x 46 mm (diameter x height), round bottom base
- Square edge

### Product features and benefits

- Reproducible syringe clean up
- Advanced sealing, minimized evaporation of wash solvents
- Easy to apply caps
- Elimination of wash solvent contamination from septa damage or degradation
- Convenient “all in one” solution

For use with TriPlus RSH Autosamplers and CTC/PAL autosamplers/liquid handlers



	Vial and cap kit	Cap only
Key attributes	Snap cap with 6 mm hole	Snap cap with 6 mm hole
	Y-slit septum	Y-slit septum
Vial color and material	Clear glass	-
Vial total volume	10 mL	-
Cap color and material	Clear PE	Clear PE
Septum color and material	Blue transparent silicon/white PTFE 1.3 mm	Blue transparent silicon/white PTFE 1.3 mm
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">WSKT-25</a>	<a href="#">WSKTCL-100</a>



# Classical (8-425 screw thread) vials, caps and kits

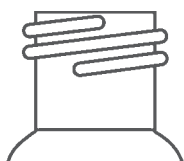
## Classical 8 mm/8-425 screw thread vials

Performance level 2 for high-throughput applications

### Description

- Classical 8 mm/8-425 screw thread
- Narrow neck opening
- 12 mm × 32 mm (diameter × height) flat bottom base
- Specification-certified

For use with 8 mm screw caps



Key attributes	ID patch/markings spot	ID patch/markings spot	-	-
Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass
Total volume	2.0 mL	2.0 mL	2.0 mL	2.0 mL
Usable volume	1.5 mL	1.5 mL	1.5 mL	1.5 mL
Residual volume	170 µL	170 µL	170 µL	170 µL
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">60180-508</a>	<a href="#">60180-560</a>	<a href="#">C4013-1</a>	<a href="#">C4013-2</a>



# Classical (8-425 screw thread) vials, caps and kits (continued)

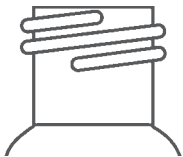
## Classical 8 mm/8-425 screw thread caps



Performance level 2 for high-throughput applications

### Description

- Screw thread closure (8 mm/8-425)
- Specification-certified

For use with 2 mL screw vials (and other vials with screw 8 mm/8-425 dimensions)



Key attributes	Open top	Close top	Open top	Open top cap with flange	Open top cap with flange	Open top cap with flange
Cap color and material	Black PP	Black PP	Black PP	Black PP	Yellow PP	White PP
Septum color and material	Red rubber/ clear PTFE	White silicone/ red PTFE	White silicone/ red PTFE	White silicone/ red PTFE	White silicone/ red PTFE	White silicone/ red PTFE
Septum thickness	1.3 mm	1.3 mm	1.5 mm	1.3 mm	1.5 mm	1.3 mm
Septum hardness	50° shore	35° shore	55° shore	45° shore	45° shore	45° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	-	<a href="#">B7815-9</a>	<a href="#">C4013-60A</a>	<a href="#">C4013-63A</a>	<a href="#">500 065</a>	<a href="#">C4013-63W</a>
500/pack 	<a href="#">8-SC-8RT1</a>	-	-	-	-	-



# Classical (8-425 screw thread) vials, caps and kits (continued)

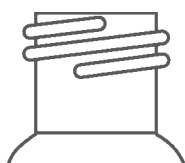
## Classical 8 mm/8-425 screw thread vial and cap kits

Performance level 2 for high-throughput applications

### Description

- Screw thread closure (8 mm/8-425)
- Narrow neck opening
- 12 mm × 32 mm (diameter × height) flat bottom base
- Specification-certified

For use with 8mm screw top vials and septa



Key attributes	Not assembled	Not assembled	Not assembled	Not assembled	Not assembled	Assembled
	ID patch/markings spot	ID patch/markings spot	-	-	ID patch/markings spot	-
Vial color and material	Clear glass	Clear glass	Clear glass	Clear glass	Clear glass	Amber glass
Vial total volume	2.0 mL	2.0 mL	2.0 mL	2.0 mL	2.0 mL	2.0 mL
Cap color and material	Black PP	Black PP	Black PP	Black PP	Yellow PP close top	White PP flange cap
Septum color and material	Transparent blue silicone/clear PTFE	White silicone/red PTFE	White silicone/red PTFE	White silicone/red PTFE	White silicone/red PTFE	White silicone/red PTFE
Septum thickness	1.0 mm	1.5 mm	1.3 mm	1.3 mm	1.5 mm	1.3 mm
Ordering information	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack	-	<a href="#">60180-600</a>	<a href="#">C4013-15</a>	<a href="#">B7800-1-9</a>	<a href="#">200 420</a>	-
1000/pack	<a href="#">60180-596</a>	-	-	-	-	<a href="#">C4013-58AW</a>

# Performance level 3: High performance

## When sensitivity is a must

Protect your most valuable samples and deliver consistent, reproducible results for your most demanding analyses

Our SureSTART Performance level 3 products are packed in a clean environment to protect them against environmental factors, and contain the lowest amounts/levels of metals, extractables and leachables; ensuring that you can get the sensitivity and selectivity from your most challenging analytes confidently and consistently.

If you need highest performance from your methods, while maintaining high levels of sample security and integrity, our Performance level 3 products will meet your needs. Select the products with the three waves.

For analytes that are prone to glass adsorption why not try our GOLD-Grade glass technology which has been specifically designed for these more challenging polar analytes, as well as our silanized vials and inserts

This offering includes SureStop vials, which, when used with 9 mm AVCS caps, ensure an optimal seal every time. The SureStop vial-AVCS cap system is specially designed to prevent screw thread vial failures such as cap tilt, cap deformities, dislodged septa or septa push through, thus prevents injection failures and sample evaporation.

Our Performance level 3 septa offer high purity, as they are conditioned to remove low- to mid-boiling volatiles, resulting in the lowest extractables and leachables in the collection. This performance level also includes soft septa options designed for optimal needle performance. These products help protect even the most fragile high-gauge needles and SPME fibers. High-temperature-compatible septa are also available within this Performance Level.

## Performance level 3 for high performance applications

- All products within this Performance level are suitable for GC, HPLC/UHPLC, and nominal mass and high-resolution accurate mass (HRAM) applications
- Headspace vials and caps available from 6 mL – 20 mL
- Vials are identified by three waves and a convenient write-on patch as standard
- Vials available as screw, SureStop, snap and crimp
- Vials available in glass, GOLD-Grade glass, silanized, TPX™ (with glass-insert), and Gold-Grade polypropylene
- Vials available as clear or amber glass
- Volume sizes ranging from 0.2 mL to 20 mL covering limited sample volumes to headspace analyses
- Vials with fixed inserts are available
- Caps available as screw, screw AVCS, snap and crimp
- Use Thermo Scientific manual or electronic crimpers and decrimpers for easy application and removal of crimp caps
- LC/GC Certified, MSCERT and MSCERT+ Kits are available under Performance level 3
- Buy vials and caps in bulk for greater savings

## Specification-certified

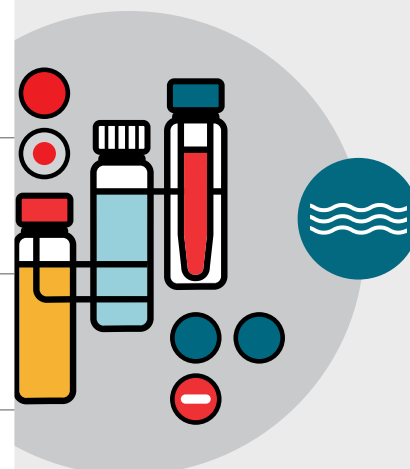
- All Thermo Scientific SureSTART vials are dimensionally verified
- Inspected by automated optical and gauge inspection to ensure critical dimensions and tolerances
- Meet all relevant requirements of the USP (US), EP (EU), and JP (Japan) pharmacopoeias

## Lot traceable

- 100% traceable through the manufacturing process
- Certificate of Conformance available by lot number upon request

# Performance level 3: High performance

Vials	Caps
0.2 mL TPX screw fixed-insert vial	
Glass screw fixed-insert vials	
1.4 mL total recovery glass screw vials	
1.5 mL total recovery glass screw vials	9 mm screw caps
1.7 mL high recovery glass screw vials	
2 mL glass screw vials	
2 mL GOLD-Grade glass screw vials	
Glass crimp fixed-insert vials	11 mm crimp caps
2 mL GOLD-Grade glass crimp vial	
2 mL glass crimp vials	11 mm crimp caps
Glass snap fixed-insert vials	
1.5 mL total recovery glass snap vials	
High recovery glass snap vials	11 mm snap caps
2 mL glass snap vials	
Vial inserts for 2 mL vials	-
Glass crimp headspace vials	20 mm crimp caps
Crimpers and decrimpers	
Electronic crimpers and decrimpers	
Kits	
LC/GC Certified	
TOC	
MSCERT and MSCERT+	
Assembled	





# Screw vials and associated caps (<2 mL – 2 mL vials, 9 mm caps)



## What is TPX?

It is a transparent plastic (polymethylpentene) that is heat resistant and has excellent resealability.

## 0.2 mL TPX screw vial with glass insert


Performance level 3 for high performance analysis

### Description

- Short thread screw
- 12 mm x 32 mm (diameter x height) fixed conical glass insert
- No marking spot
- Specification-certified

For use with 9 mm screw caps, or 9 mm AVCS screw cap



Vial color and material	TPX with fixed insert Clear glass, amber transparent plastic
Total volume	200 µL
Usable volume	150 µL
Residual volume	1 µL
Ordering information	Cat. no.
100/pack 	<a href="#">60180-1655</a>

Want to learn more?



Watch this short  
microsampling video





# Screw vials and associated caps (continued)

## (<2 mL – 2 mL vials, 9 mm caps)

### Glass screw fixed-insert vials




Performance level 3 for high performance analysis

#### Description

- Short thread screw
- 12 mm x 32 mm (diameter x height) fixed conical insert, flat bottom base
- Marking spot
- Specification-certified

For use with 9 mm screw caps, or 9 mm AVCS screw caps



Vial color and material	Clear glass	Amber glass
Total volume	300 µL	300 µL
Usable volume	250 µL	250 µL
Residual volume	2 µL	2 µL
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6PSV9-03FIVP</a>	<a href="#">6PSV9-03FIVAP</a>
10 x 100/pack 	<a href="#">6PSV9-03FIVPT</a>	<a href="#">6PSV9-03FIVAPT</a>
50 x 100/pack 	<a href="#">6PSV9-03FIVPF</a>	<a href="#">6PSV9-03FIVAPF</a>



# Screw vials and associated caps (continued)

(<2 mL – 2 mL vials, 9 mm caps)

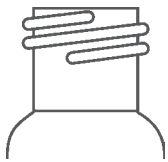
## 1.5 mL total recovery glass screw vial

Performance level 3 for high performance analysis

### Description

- Short thread screw
- 12 mm x 32 mm (diameter x height) total recovery internal base
- No marking spot
- Specification-certified

For use with 9 mm screw caps, or 9 mm AVCS screw caps



Vial color and material	Clear glass
Total volume	1.5 mL
Usable volume	1.1 mL
Residual volume	1 µL
Ordering information	Cat. no.
100/pack	<a href="#">6PSV9-TR1</a>
10 x 100/pack	<a href="#">6PSV9-TR1T</a>
50 x 100/pack	<a href="#">6PSV9-TR1E</a>



# Screw vials and associated caps (continued)

## (<2 mL – 2 mL vials, 9 mm caps)

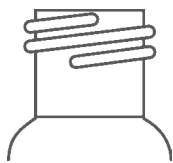
### 1.4 and 1.7 mL high recovery glass screw vials



Performance level 3 for high performance analysis

#### Description

- Short thread screw
- 12 mm x 32 mm (diameter x height) internal V-base
- No marking spot
- Specification-certified

For use with 9 mm screw caps, or 9 mm AVCS screw caps



Vial color and material	Clear glass	Clear glass, silanized	Clear glass
Total volume	1.4 mL	1.7 mL	1.7 mL
Usable volume	1.0 mL	1.5 mL	1.5 mL
Residual volume	4 µL	3 µL	4 µL
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6PSV9-CHV1</a>	<a href="#">6PSV9-SV1</a>	<a href="#">6PSV9-V1</a>
10 x 100/pack 	-	-	<a href="#">6PSV9-V1T</a>
50 x 100/pack 	-	-	<a href="#">6PSV9-V1F</a>



# Screw vials and associated caps (continued)

(<2 mL – 2 mL vials, 9 mm caps)

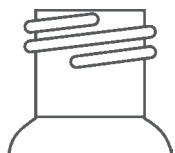
## 2 mL GOLD-Grade glass screw vials




Performance level 3 for high performance analysis

### Description

- Short thread screw
- 12 mm × 32 mm (diameter × height), flat bottom base
- Marking spot
- Specification-certified

For use with 9 mm screw caps, or 9 mm AVCS screw caps



Vial color and material	SureStop, GOLD-Grade glass
	Clear glass
Total volume	2 mL
Usable volume	1.5 mL
Residual volume	170 µL
Ordering information	Cat. no.
100/pack 	<a href="#">6PSV9-1PG</a>
10 x 100/pack 	<a href="#">6PSV9-1PGT</a>
50 x 100/pack 	<a href="#">6PSV9-1PGF</a>



# Screw vials and associated caps (continued)

## (<2 mL – 2 mL vials, 9 mm caps)

### GOLD-Grade polypropylene vials

Performance level 3 for high performance analysis

#### Description

- Short thread screw
- 12 mm x 32 mm (diameter x height)
- No marking spot
- Specification-certified

These low-bind polypropylene vials have been coated with a 200 nm thick layer of 100% silicon dioxide providing superior chemical inertness and performance. The surface is free from anions and cations, minimizing adsorption, reducing non-specific binding and ensuring that even trace-level samples are recovered reliably.



Key attributes	9 mm screw thread vial	11 mm snap vial	11 mm snap vial
	Fixed insert	Fixed insert	Fixed insert
Vial color and material	Clear GOLD-Grade PP	Clear GOLD-Grade PP	Clear GOLD-Grade PP
Total volume	0.4 mL (400 µL)	0.3 mL (300 µL)	0.8 mL
Usable volume	0.3 mL (300 µL)	0.2 mL (200 µL)	0.6 mL
Residual volume	4 µL	4 µL	6 µL
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack	<a href="#">6PSV9-04GPP</a>	<a href="#">6PRV11-03GPPC</a>	<a href="#">6PRV11-08GPPC</a>

#### Concerned about non-specific binding (NSB)?

We recommend using our GOLD-Grade polypropylene vials





# Screw vials and associated caps (continued)

(<2 mL – 2 mL vials, 9 mm caps)

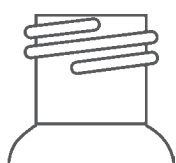
## 2 mL glass screw vials




Performance level 3 for high performance analysis

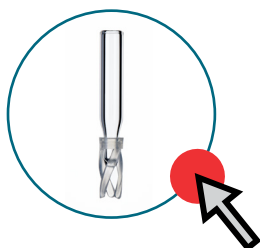
### Description

- Screw
- 12 mm x 32 mm (diameter x height) flat bottom base
- Marking spot
- Specification-certified

For use with 9 mm screw caps, or 9 mm AVCS screw caps



Vial color and material	-	Silianized	SureStop	SureStop
	Clear glass	Clear glass	Clear glass	Amber glass
Total volume	2.0 mL	2.0 mL	2.0 mL	2.0 mL
Usable volume	1.5 mL	1.5 mL	1.5 mL	1.5 mL
Residual volume	170 µL	170 µL	170 µL	170 µL
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6PSV9-1P</a>	<a href="#">6PSV9-S1P</a>	<a href="#">6PSV9-1PSS</a>	<a href="#">6PSV9-2PSS</a>
10 x 100/pack 	<a href="#">6PSV9-1PT</a>	-	<a href="#">6PSV9-1PSST</a>	<a href="#">6PSV9-2PSST</a>
50 x 100/pack 	<a href="#">6PSV9-1PF</a>	-	<a href="#">6PSV9-1PSSF</a>	<a href="#">6PSV9-2PSSF</a>



### Need a smaller volume?

Why not use with our polyspring glass inserts



# Screw vials and associated caps (continued)

## (<2 mL – 2 mL vials, 9 mm caps)

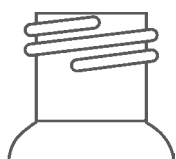
### 9 mm screw caps




Performance level 3 for high-throughput applications

#### Description

- Short thread screw
- Specification-certified

For use with <2 mL – 2 mL screw vials



Key attributes	AVCS cap	AVCS cap	AVCS cap
Cap color and material	Blue PP	Blue PP	Blue PP
Septum color and material	Red PTFE/white silicone/red PTFE	White silicone/blue PTFE	White silicone/red PTFE
Septum hardness	45° shore	55° shore	45° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6PSC9TST</a>	<a href="#">6PSC9STS1</a>	<a href="#">6PSC9ST1</a>
10 x 100/pack 	<a href="#">6PSC9TSTT</a>	<a href="#">6PSC9STS1T</a>	<a href="#">6PSC9ST1T</a>
50 x 100/pack 	<a href="#">6PSC9TSTF</a>	<a href="#">6PSC9STS1F</a>	<a href="#">6PSC9ST1F</a>



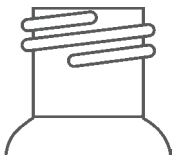
# Screw vials and associated caps (continued)




(<2 mL – 2 mL vials, 9 mm caps)

## 9 mm screw caps (continued)

Performance level 3 for high-throughput applications

Description
<ul style="list-style-type: none"> <li>• Short thread screw</li> <li>• Specification-certified</li> </ul>
For use with <2 mL – 2 mL screw vials



Key attributes	AVCS cap	AVCS cap	AVCS cap	AVCS cap
	Soft, pre-slit septum	Soft septum	-	Pre-slit septum
Cap color and material	Blue PP	Blue PP	Red PP	Blue PP
Septum color and material	Blue silicone/clear PTFE	Blue silicone/clear PTFE	Red PTFE/ white silicone/red PTFE	Red silicone/clear PTFE
Septum thickness	1.0 mm	1.0 mm	1.0 mm	1.0 mm
Septum hardness	30° shore	30° shore	45° shore	58° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6PSC9ST101X</a>	<a href="#">6PSC9ST101</a>	<a href="#">6PSC9TSTR</a>	-
10 x 100/pack 	-	-	<a href="#">6PSC9TSTRT</a>	-
50 x 100/pack 	-	-	<a href="#">6PSC9TSTRF</a>	<a href="#">9-SCK(B)-8RT1X</a>



# Screw vials and associated caps (continued)

## (<2 mL – 2 mL vials, 9 mm caps)

### 9 mm screw caps (continued)


Performance level 3 for high-throughput applications

#### Description

- Short thread screw
- Specification-certified
- Screw AVCS technology

For use with <2 mL – 2 mL screw vials



Key attributes	AVCS cap	AVCS cap	AVCS cap	AVCS cap
	Pre-slit septum	-	-	Pre-slit septum
Cap color and material	Yellow PP	Yellow PP	Green PP	Green PP
Septum color and material	White silicone/ blue PTFE	Red PTFE/white silicone/ red PTFE	Red PTFE/white silicone/ red PTFE	White silicone/ blue PTFE
Septum thickness	1.0 mm	1.0 mm	1.0 mm	1.0 mm
Septum hardness	55° shore	45° shore	45° shore	55° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6PSC9STS1Y</a>	<a href="#">6PSC9TSTY</a>	<a href="#">6PSC9TSTG</a>	<a href="#">6PSC9STS1G</a>



# Screw vials and associated caps (continued)

(<2 mL – 2 mL vials, 9 mm caps)

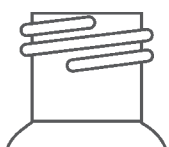
## 9 mm screw caps (continued)




Performance level 3 for high-throughput applications

### Description

- Short thread screw
- Specification-certified

For use with <2 mL – 2 mL screw vials



Key attributes	AVCS cap	AVCS cap	Bonded cap	Bonded cap
Pre-slit septum		-	Pre-slit septum	-
Cap color and material	Red PP	Red PP	Grey PP	Black PP
Septum color and material	White silicone/blue PTFE	White silicone/red PTFE	White silicone/red PTFE	White silicone/red PTFE
Septum thickness	1.0 mm	1.0 mm	1.0 mm	1.0 mm
Septum hardness	55° shore	45° shore	45° shore	45° shore
Ordering information	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack 	<a href="#">6PSC9STS1R</a>	<a href="#">6PSC9ST1R</a>	<a href="#">6PSC9STBS1</a>	<a href="#">6PSC9STB1</a>
10 x 100/pack 	<a href="#">6PSC9STS1RT</a>	<a href="#">6PSC9ST1RT</a>	<a href="#">6PSC9STBS1T</a>	<a href="#">6PSC9STB1T</a>
50 x 100/pack 	-	<a href="#">6PSC9ST1RF</a>	<a href="#">6PSC9STBS1F</a>	<a href="#">6PSC9STB1F</a>



# Screw vials and associated caps (continued)

## (<2 mL – 2 mL vials, 9 mm caps)

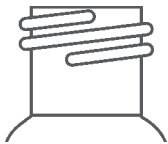
### 9 mm screw caps (continued)


Performance level 3 for high-throughput applications

#### Description

- Short thread screw
- Specification-certified

For use with <2 mL – 2 mL screw vials



Cap components	AVCS cap
	Magnetic cap
Cap color and material	Blue PP with gold magnetic tinplate cover
Septum color and material	White silicone/red PTFE
Septum thickness	1.0 mm
Septum hardness	45° shore
Ordering information	Cat. no.
100/pack 	<a href="#">6PMSC9ST1</a>



# Screw vials and associated caps (continued)

## (13 mm caps)

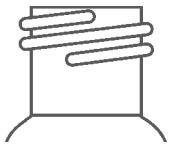
### 13 mm screw caps


Performance level 3 for high-throughput applications

#### Description

- For 13 mm/13-425 thread screw vials
- Specification-certified

For use with 4 mL screw vials or other vials with a 13 mm/13-425 screw thread



Key attributes	-	Pre-slit septum
Cap color and material	Black PP	Black PP
Septum color and material	Red PTFE/white silicone/red PTFE	White silicone/blue PTFE
Septum thickness	1.25 mm	1.5 mm
Septum hardness	55° shore	55° shore
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">C4015-40A</a>	<a href="#">C4015-55BLK</a>



# Crimp vials and associated caps (<2 mL – 2 mL, 11 mm caps)

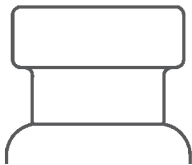
## Glass crimp fixed-insert vials




Performance level 3 for high performance analysis

### Description

- Crimp
- 6 mm x 32 mm (diameter x height) for the round bottom and conical 8 mm crimp vials
- 12 mm x 32 mm (diameter x height) fixed conical insert, flat bottom base
- Marking spot
- Specification-certified

For use with 11 mm crimp caps; the round and conical crimp vials with 8 mm crimp caps



Vial color and material	Clear glass	Amber glass	Clear glass, round bottom, GOLD-Grade	Clear glass, conical bottom, GOLD-Grade
Total volume	300 µL	300 µL	300 µL	200 µL
Usable volume	250 µL	250 µL	250 µL	150 µL
Residual volume	4 µL	4 µL	2 µL	2 µL
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6PCV11-03FIVP</a>	<a href="#">6PCV1103FIVAP</a>	<a href="#">6PCV8-03R1G</a>	<a href="#">6PCV8-02C1G</a>
10 x 100/pack 	<a href="#">6PCV11-03FIVPT</a>	<a href="#">6PCV1103FIVAPT</a>	-	-
50 x 100/pack 	<a href="#">6PCV11-03FIVPF</a>	<a href="#">6PCV1103FIVAPF</a>	-	-



# Crimp vials and associated caps (continued)

## (<2 mL – 2 mL, 11 mm caps)

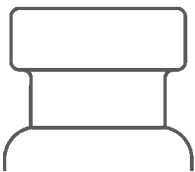
### 2 mL GOLD-Grade crimp vials


Performance level 3 for high performance analysis

#### Description

- Crimp
- 12 mm x 32 mm (diameter x height)
- Marking spot
- Specification-certified

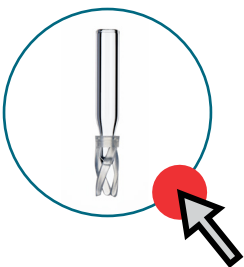
For use with 11 mm crimp caps



Vial color and material	GOLD-Grade glass
	Clear glass
Total volume	2.0 mL
Usable volume	1.5 mL
Residual volume	170 µL
Ordering information	Cat. no.
100/pack 	<a href="#">6PCV11G</a>

#### Need a smaller volume?

Why not use with our glass inserts





# Crimp vials and associated caps (continued)

## (<2 mL – 2 mL, 11 mm caps)

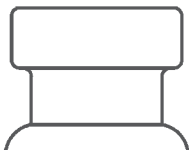
### 2 mL glass crimp vials




Performance level 3 for high performance analysis

#### Description

- Crimp
- 12 mm x 32 mm (diameter x height)
- Marking spot
- Specification-certified

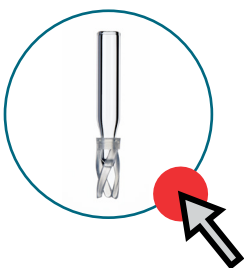
For use with 11 mm crimp caps



Vial color and material	Clear glass
Total volume	2.0 mL
Usable volume	1.5 mL
Residual volume	170 µL
<b>Ordering information</b>	<b>Cat. no.</b>
100/pack 	<a href="#">6PCV11-1P</a>
10 x 100/pack 	<a href="#">6PCV11-1PT</a>
50 x 100/pack 	<a href="#">6PCV11-1PF</a>

#### Need a smaller volume?

Why not use with our glass inserts





# Crimp vials and associated caps (continued)

## (<2 mL – 2 mL, 11 mm caps)

### 11 mm crimp caps

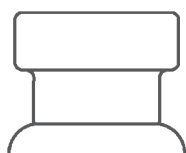
Performance level 3 for high performance analysis


#### Description

- Crimp closure (11 mm)
- Specification-certified

For use with <2 mL – 2 mL crimp vials, or <2 mL – 2 mL snap vials

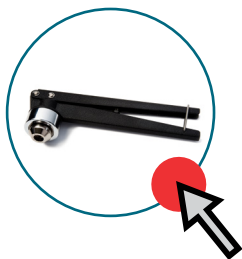
Use with 11 mm crimpers and decrimpers



Cap color and material	Silver aluminum	Silver magnetic steel
Septum color and material	Red PTFE/white silicone/red PTFE	White silicone/red PTFE
Septum thickness	1.0 mm	1.3 mm
Septum hardness	45° shore	57° shore
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6PCC11TST</a>	<a href="#">6PCCMST15</a>

#### Learn more about:

Manual and electronic crimpers and decrimpers





# Crimp vials and associated caps (continued)

## (<2 mL – 2 mL, 11 mm caps)

### 11 mm crimp caps (continued)

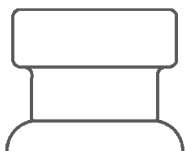
#### Performance level 3 for high performance analysis


##### Description

- Crimp closure (11 mm)
- Specification-certified

For use with <2 mL – 2 mL crimp vials, or <2 mL – 2 mL snap vials

Use with 11 mm crimpers and decrimpers



	Soft septum	Pre-slit septum	Soft, pre-slit septum
Cap color and material	Silver aluminum	Silver aluminum	Silver magnetic steel
Septum color and material	Blue silicone/clear PTFE	Blue silicone/clear PTFE	Blue silicone/clear PTFE
Septum thickness	1.0 mm	1.0 mm	1.0 mm
Septum hardness	30° shore	35° shore	30° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6PCC11ST101</a>	<a href="#">6PCC11ST101X</a>	<a href="#">6PCCMST101X</a>



# Snap vials and associated caps

(<2 mL – 2 mL vials, 11 mm caps)

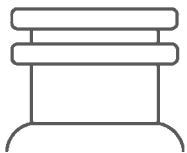
## Glass snap fixed-insert vials




Performance level 3 for high performance analysis

### Description

- Snap
- 11 mm x 32 mm (diameter x height) fixed conical insert, flat bottom base
- Marking spot
- Specification-certified

For use with 11 mm snap caps or 11 mm crimp caps



Vial color and material	Clear glass	Amber glass
Total volume	300 µL	300 µL
Usable volume	250 µL	250 µL
Residual volume	4 µL	4 µL
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6PRV11-03FIVP</a>	<a href="#">6PRV1103FIVAP</a>
10 x 100/pack 	<a href="#">6PRV11-03FIVPT</a>	<a href="#">6PRV1103FIVAPT</a>
50 x 100/pack 	<a href="#">6PRV11-03FIVPE</a>	<a href="#">6PRV1103FIVAPE</a>



# Snap vials and associated caps (continued)

## (<2 mL – 2 mL vials, 11 mm caps)

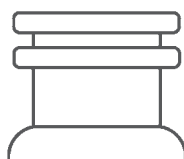
### 1.5 mL total recovery glass snap vials

Performance level 3 for high performance analysis

#### Description

- Snap
- 12 mm x 32 mm (diameter x height) total recovery internal base
- No marking spot
- Specification-certified

For use with 11 mm snap caps



Vial color and material	Clear glass
Total volume	1.5 mL
Usable volume	1.1 mL
Residual volume	1 µL
Ordering information	Cat. no.
100/pack	<a href="#">6PRV11-TR1</a>
10 x 100/pack	<a href="#">6PRV11-TR1T</a>
50 x 100/pack	-



# Snap vials and associated caps (continued)

## (<2 mL – 2 mL vials, 11 mm caps)

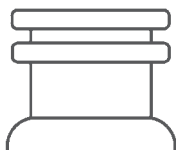
### High recovery glass snap vials




Performance level 3 for high performance analysis

#### Description

- Snap
- 12 mm × 32 mm (diameter × height) internal V-base
- No marking spot
- Specification-certified

For use with 11 mm snap caps



Vial color and material	Silanized glass	Clear glass	Clear glass
Total volume	1.7 mL	1.7 mL	1.5 mL
Usable volume	1.5 mL	1.5 mL	1.2 mL
Residual volume	4 µL	4 µL	4 µL
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6PRV11-S1V</a>	<a href="#">6PRV11-1V</a>	<a href="#">6PRV11-15V</a>
10 x 100/pack 	-	-	<a href="#">6PRV11-15VT</a>
50 x 100/pack 	-	-	-



# Snap vials and associated caps (continued)

## (<2 mL – 2 mL vials, 11 mm caps)

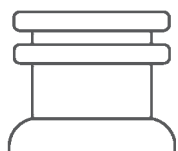
### 2 mL glass snap vials

Performance level 3 for high performance analysis

#### Description

- Snap
- 12 mm x 32 mm (diameter x height)
- Marking spot
- Specification-certified

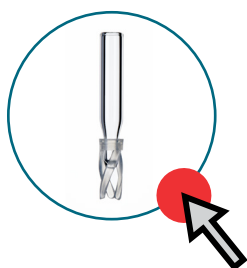
For use with 11 mm snap caps



Vial color and material	Clear glass
Total volume	2.0 mL
Usable volume	1.5 mL
Residual volume	170 µL
<b>Ordering information</b>	<b>Cat. no.</b>
100/pack	<a href="#">6PRV11-1P</a>
10 x 100/pack	<a href="#">6PRV11-1PT</a>
50 x 100/pack	<a href="#">6PRV11-1PE</a>

#### Need a smaller volume?

Why not use with our glass inserts





# Snap vials and associated caps (continued)

## (<2 mL – 2 mL vials, 11 mm caps)

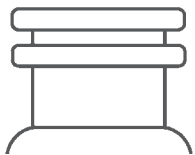
### 11 mm snap cap




Performance level 3 for high performance analysis

#### Description

- Snap closure (11 mm)
- Specification-certified

For use with <2 mL and 2 mL snap vials



Key attributes	Pre-slit septum	-	-	Star pre-slit septum
Cap color and material	Blue PE	Blue PE	Blue PE	Clear PE
Septum color and material	White silicone/blue PTFE	White silicone/red PTFE	Blue silicone/clear PTFE, soft	White silicone/red PTFE
Septum thickness	1.0 mm	1.3 mm	1.0 mm	1.0 mm
Septum hardness	55° shore	45° shore	35° shore	45° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6PRC11STS1</a>	<a href="#">6PRC11ST1</a>	<a href="#">6PRC11ST101</a>	<a href="#">6PRC11STS1X</a>
10 x 100/pack 	<a href="#">6PRC11STS1T</a>	<a href="#">PRC11ST1T</a>	<a href="#">6PRC11ST101T</a>	<a href="#">6PRC11STS1XT</a>
50 x 100/pack 	<a href="#">6PRC11STS1F</a>	<a href="#">6PRC11ST1F</a>	<a href="#">6PRC11ST101F</a>	<a href="#">6PRC11STS1XF</a>



# Snap vials and associated caps (continued)

## (<2 mL – 2 mL vials, 11 mm caps)

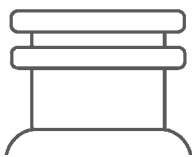
### 11 mm snap cap (continued)

Performance level 3 for high performance analysis

#### Description

- Snap closure (11 mm)
- Specification-certified

For use with <2 mL and 2 mL snap vials



<b>Key attributes</b>	Pre-slit septum	-	-	-
<b>Cap color and material</b>	Red PE	Red PE	Red PE	Red PE
<b>Septum color and material</b>	White silicone/blue PTFE	White silicone/red PTFE	Blue silicone/clear PTFE, soft	Red PTFE/white silicone/red PTFE
<b>Septum thickness</b>	1.3 mm	1.3 mm	1.0 mm	1.0 mm
<b>Septum hardness</b>	55° shore	45° shore	35° shore	45° shore
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack	<a href="#">6PRC11STS1R</a>	<a href="#">6PRC11ST1R</a>	<a href="#">6PRC11ST101R</a>	<a href="#">6PRC11TST1R</a>
10 x 100/pack	<a href="#">6PRC11STS1RT</a>	<a href="#">6PRC11ST1RT</a>	<a href="#">6PRC11ST101RT</a>	-
50 x 100/pack	<a href="#">6PRC11STS1RE</a>	<a href="#">6PRC11ST1RE</a>	<a href="#">6PRC11ST101RE</a>	-



# Snap vials and associated caps (continued)

(<2 mL – 2 mL vials, 11 mm caps)

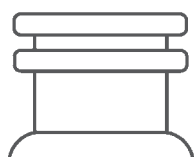
## 11 mm snap cap (continued)


Performance level 3 for high performance analysis

### Description

- Snap closure (11 mm)
- Specification-certified

For use with <2 mL and 2 mL snap vials



Key attributes	Pre-slit septum	Pre-slit septum	Pre-slit septum	-	-
Cap color and material	Green PE	Yellow PE	Clear PE	Clear PE	Blue PE
Septum color and material	White silicone/ blue PTFE	White silicone/ blue PTFE	White silicone/ blue PTFE	Red PTFE/white silicone/red PTFE	Red PTFE/white silicone/red PTFE
Septum thickness	1.0 mm	1.0 mm	1.0 mm	1.0 mm	1.0 mm
Septum hardness	55° shore	55° shore	55° shore	45° shore	45° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6PRC11STS1G</a>	<a href="#">6PRC11STS1Y</a>	<a href="#">6PRC11STS1C</a>	<a href="#">C4011-53</a>	<a href="#">C4011-53B</a>



# Inserts (2 mL vials)



Watch this short video about inserts with polysprings

## Inserts for 2 mL vials




Performance level 3 for high-throughput applications

### Description

- 6 mm × 31 mm (diameter × height)
- No marking spot
- Specification-certified

For use with 2 mL screw vials, 2 mL snap vials or 2 mL crimp vials



Insert color and material	GOLD-Grade glass	Deactivated/silanized glass	-	GOLD-Grade glass	-	-
	0.2 mL clear conical glass insert	0.3 mL clear conical glass insert, with PE polyspring	0.3 mL conical glass insert, with PE polyspring	0.3 mL conical borosilicate glass insert, with PE polyspring	0.4 mL clear conical glass insert, with pulled point	0.4 mL clear conical glass insert, with precision point
Total volume	200 µL	300 µL	300 µL	300 µL	400 µL	400 µL
Usable volume	150 µL	250 µL	250 µL	250 µL	350 µL	350 µL
Residual volume	2 µL	1 µL	4 µL	4 µL	4 µL	2 µL
Height	31 mm	30 mm	30 mm	30 mm	31 mm	31 mm
Outer diameter	6 mm	6 mm	6 mm	6 mm	6 mm	6 mm
Base style	Conical base	Conical base	Conical base	Conical base	Conical base	Conical base
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	-	<a href="#">6PME03C1SSP</a>	<a href="#">6PME03C1SP</a>	<a href="#">6PME03C1SPG</a>	<a href="#">6PME04C1</a>	<a href="#">6PME04CPR1</a>
10 x 100/pack 	<a href="#">6PME02CG</a>	<a href="#">6PME03C1SSPT</a>	<a href="#">6PME03C1SPT</a>	-	<a href="#">6PME04C1T</a>	-
50 x 100/pack 	-	<a href="#">6PME03C1SSPF</a>	<a href="#">6PME03C1SPF</a>	-	<a href="#">6PME04C1F</a>	-



# Inserts (continued)

## (2 mL vials)

### Inserts for 2 mL vials (continued)


Performance level 3 for high-throughput applications

#### Description

- 6 mm × 31 mm (diameter × height)
- No marking spot
- Specification-certified

For use with 2 mL screw vials, 2 mL snap vials or 2 mL crimp vials



	-	Blue ring	Silanized
Insert color and material	0.4 mL clear flat bottom glass insert	0.4 mL clear flat bottom glass insert,	0.5 mL clear flat bottom glass insert
Total volume	400 µL	400 µL	500 µL
Usable volume	250 µL	250 µL	450 µL
Residual volume	12 µL	12 µL	25 µL
Height	31 mm	31 mm	31 mm
Outer diameter	5.6 mm	5.6 mm	6 mm
Base style	Flat bottom	Flat bottom	Flat bottom
Ordering information	Cat. no.	Cat. no.	Cat. no.
500/pack 	<a href="#">6PME04F1</a>	<a href="#">6PME04F1BR</a>	<a href="#">6PME05FS1</a>



# Inserts (continued)

## (2 mL vials)

### Inserts for 2 mL vials (continued)

Performance level 3 for high-throughput applications

#### Description

- 5 mm diameter
- No marking spot
- Specification-certified

For use with 2 mL (8 mm) screw vials and other narrow neck vials



Insert color and material	0.15 mL clear glass conical insert, with pulled point	0.2 mL clear glass conical insert, with pulled point	0.35 mL clear glass flat bottom inser
Total volume	150 µL	200 µL	350 µL
Usable volume	125 µL	170 µL	320 µL
Residual volume	2 mL	3 mL	30 mL
Height	29 mm	31 mm	41 mm
Outer diameter	5 mm	5 mm	5 mm
Base style	Conical base	Conical base	Flat base
Ordering information	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack 	<a href="#">C4012-529</a>	<a href="#">C4012-529L</a>	-
10 x 100/pack 	-	-	<a href="#">C4015-542</a>



# Headspace crimp vials and associated caps

(6 mL – 20 mL vials, 20 mm caps)

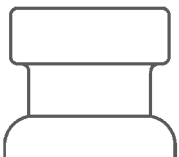
## 6 mL, 9.5 mL and 10 mL glass crimp headspace vials



Performance level 3 for high performance analysis

### Description

- Crimp (20 mm)
- Marking spot
- Specification-certified

For use with 20 mm crimp caps



<b>Vial color and material</b>	Clear glass	Clear glass, no marking spot, inner V-bottom, high recovery	Clear glass	Clear glass
<b>Total volume</b>	6.0 mL	9.5 mL	10 mL	12.5 mL
<b>Usable volume</b>	5.0 mL	9.5 mL	8.0 mL	10 mL
<b>Residual volume</b>	0.8 mL	0.08 mL	0.8 mL	0.8 mL
<b>Dimensions (diameter x height)</b>	21.75 x 38 mm	22.65 x 45.2 mm	22.75 x 46 mm	23 x 46 mm
<b>Rim and base style</b>	Square rim, flat bottom	Square rim, flat bottom	Beveled rim, flat bottom	Square rim, flat bottom
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack 	<a href="#">6PCV6-1F</a>	<a href="#">6PCV10-V1</a>	<a href="#">6PCV10-1F</a>	-
10 x 100/pack 	<a href="#">6PCV6-1FT</a>	-	<a href="#">6PCV10-1FT</a>	<a href="#">C4020-410</a>
50 x 100/pack 	<a href="#">6PCV6-1FF</a>	-	-	-



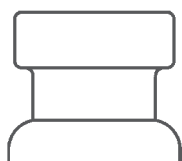
# Headspace crimp vials and associated caps (continued)


## (6 mL – 20 mL vials, 20 mm caps)

### 20 mL glass crimp headspace vials

Performance level 3 for high performance analysis

Description	
<ul style="list-style-type: none"> <li>• Crimp (20 mm)</li> <li>• Marking spot</li> <li>• Specification-certified</li> </ul>	
For use with 20 mm crimp caps	



Vial color and material	Clear glass	Clear glass
Total volume	20 mL	20 mL
Usable volume	18 mL	18 mL
Residual volume	0.8 mL	0.8 mL
Dimensions (diameter x height)	22.75 x 75.0 mm	22.75 x 75.0 mm
Rim and base style	Beveled rim, flat bottom	Beveled rim, round bottom
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack 	<a href="#">6PCV20-1F</a>	<a href="#">6PCV20-1R</a>
10 x 100/pack 	<a href="#">6PCV20-1FT</a>	<a href="#">6PCV20-1RT</a>
50 x 100/pack 	<a href="#">6PCV20-1FF</a>	<a href="#">6PCV20-1RF</a>



# Headspace crimp vials and associated caps (continued)

## (6 mL – 20 mL vials, 20 mm caps)

### 8 mm crimp caps

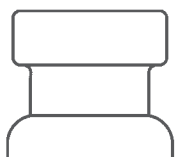
Performance level 3 for high performance analysis



#### Description

- Crimp closure (8 mm)
- Specification-certified

For use with <2 mL crimp vials (with neck size of 8 mm)

Use with 8 mm crimpers and decrimpers



Cap color and material	Silver aluminum	Silver aluminum
Septum color and material	Blue silicone/clear PTFE; soft	Red PTFE/white silicone/red PTFE
Septum thickness	1.0 mm	1.0 mm
Septum hardness	30° shore	45° shore
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6PCC8ST101</a>	-
200/pack 	-	<a href="#">C4008-2A</a>
1000/pack 	-	<a href="#">201 876</a>



# Headspace crimp vials and associated caps (continued)

## (6 mL – 20 mL vials, 20 mm caps)

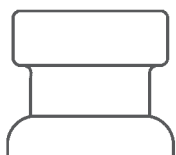
### 18 mm precision screw caps





Performance level 3 for high performance analysis

#### Description

- Screw thread closure
- Specification-certified

For use with 10 mL and 20 mL screw top headspace vials



Cap color and material	Magnetic Silver steel	Magnetic Silver steel	Magnetic Silver steel
Septum color and material	Blue silicone/clear PTFE, not prefitted	Blue silicone/clear PTFE; soft	Red silicone/natural PTFE; high temperature
Septum thickness	1.0 mm	2.0 mm	3.0 mm
Septum hardness	30° shore	40° shore	45° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.
100/pack 	-	<a href="#">6PMSC18-ST2</a>	<a href="#">6PMSC18-STH</a>
125/pack 	<a href="#">18-MSC-ST101</a>	-	-
10 x 100/pack 	-	<a href="#">6PMSC18-ST2T</a>	<a href="#">6PMSC18-STHT</a>
5000/pack 	-	<a href="#">6PMSC18-ST2F</a>	-



# Headspace crimp vials and associated caps (continued)

## (6 mL – 20 mL vials, 20 mm caps)

### 20 mm crimp caps

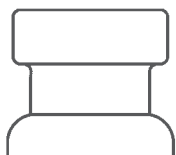
Performance level 3 for high performance analysis

#### Description

- Crimp closure (20 mm)
- Specification-certified

For use with 10 mL and 20 mL crimp headspace vials (with neck size of 20 mm)

Use with 20 mm crimpers and decrimpers



Cap color and material	-	Magnetic	Magnetic
Cap color and material	Silver aluminum	Red aluminum/magnetic tinplate	Silver aluminum/magnetic tinplate
Septum color and material	Blue silicone/clear PTFE; soft	Blue silicone/clear PTFE; soft	Red silicone/natural PTFE; high temperature
Septum thickness	3.0 mm	3.0 mm	3.0 mm
Septum hardness	40° shore	40° shore	45° shore
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack	<a href="#">6PCC20-ST3</a>	<a href="#">6PBCC20-ST3</a>	<a href="#">6PBCC20-STH</a>
10 x 100/pack	<a href="#">6PCC20-ST3T</a>	<a href="#">6PBCC20-ST3T</a>	<a href="#">6PBCC20-STHT</a>
50 x 100/pack	<a href="#">6PCC20-ST3F</a>	<a href="#">6PBCC20-ST3F</a>	-

#### Learn more about:

Manual and electronic crimpers and decrimpers





# Headspace crimp vials and associated caps (continued)

## (6 mL – 20 mL vials, 20 mm caps)

### 20 mm crimp caps (continued)

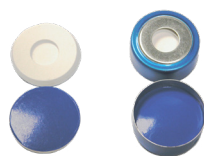
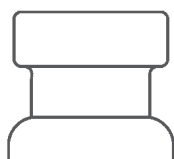
Performance level 3 for high performance analysis





#### Description

- Crimp closure (20 mm)
- Specification-certified

For use with 10 mL and 20 mL crimp headspace vials (with neck size of 20 mm)

Use with 20 mm crimpers and decrimpers



Cap color and material	Magnetic for SPME	Magnetic	Magnetic
	Blue aluminum/magnetic tinplate	Red aluminum/magnetic tinplate	Blue aluminum/magnetic tinplate
Septum color and material	White silicone/blue PTFE	Grey chlorobutyl/black PTFE	No septa included
Septum thickness	3.0 mm, 1.5 mm at thinned area	3.0 mm	N/A
Septum hardness	45° shore	50° shore	N/A
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack 	<a href="#">6PBCC20-STME</a>	<a href="#">6PBCC20-CBT3</a>	-
500/pack 	-	-	<a href="#">20-MCBC</a>
10 x 100/pack 	<a href="#">6PBCC20-STMET</a>	-	-
50 x 100/pack 	<a href="#">6PBCC20-STMEF</a>	-	-



# Headspace crimp vials and associated caps (continued)

## (6 mL – 20 mL vials, 20 mm caps)

### 8 mm septa


Performance level 3 for high performance analysis

#### Description

- 8 mm septum
- Specification-certified

For use with 8 mm caps



Key attributes	Septum (8 mm)
Color and material	Blue silicone/clear PTFE; soft
Septum thickness	1.0 mm
Septum hardness	30° shore
Ordering information	Cat. no.
500/pack 	<a href="#">60180-515</a>



# Stoppers and septa

## 9 - 13 mm stoppers and septa


Performance level 3 for high performance analysis

### Description

- Specification-certified

For use with vials with neck size 9 mm and 13 mm



Key attributes	Septum (9 mm)	Septum (12 mm)	Septum (13 mm)
Color and material	Red PTFE/white silicone/red PTFE	Blue silicone/clear PTFE	Red PTFE/white silicone/red PTFE
Septum thickness	1.0 mm	1.0 mm	1.3 mm
Septum hardness	45° shore	30° shore	50° shore
Ordering information	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack 	<a href="#">C4000-40</a>	-	<a href="#">C4015-40</a>
500/pack 	-	<a href="#">12-ST101</a>	-



# Stoppers and septa (continued)

## 18 - 20 mm stoppers and septa

Performance level 3 for high performance analysis

### Description

- Specification-certified

For use with vials with neck size 18 mm and 20 mm



	Septum (18 mm)	Septum (18 mm)	Septum (20 mm)	Septum (20 mm)	Septum (20 mm)
<b>Key attributes</b>	-	-	Silicone free penetration area for spme	-	High temperature
<b>Color and material</b>	Blue silicone/ clear PTFE; soft	Blue silicone/ clear PTFE; soft	Blue silicone/ clear PTFE	Blue silicone/ clear PTFE; soft	Red rubber/ white PTFE
<b>Septum thickness</b>	1.0 mm	2.0 mm	3.0 mm/0.25 mm	1.0 mm	3.0 mm
<b>Septum hardness</b>	30° shore	30° shore	-	30° shore	45° shore
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
100/pack	-	-	<a href="#">20-LLX</a>	-	-
125/pack	<a href="#">18-ST101</a>	-	-	-	-
250/pack	-	-	-	-	<a href="#">502 158</a>
500/pack	-	<a href="#">18-ST201</a>	-	<a href="#">20-ST101</a>	-



# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits

## 1. Specification-certified kits

### For everyday analysis

- Tested and certified for up to 15 critical physical specifications

## 2. LC/GC Certified kits

### For chromatographic analysis

- Tested and certified for up to 15 critical physical specifications
- Tested and certified using LC-UV and GC-FID to ensure that there are no residual manufacturing agents present in the vial
- A certificate is provided with each kit

## 3. MSCERT and MSCERT+ kits

### For use with mass spectrometry systems

- Our mass spec certified vials carry our highest level of certification and are recommended for low concentrations
- Tested and certified for up to 15 critical physical specifications
- Tested using LC-MS and GC-MS for low contamination
- Certification comes with the kit
- MSCERT+ kits are pre-cleaned and certified for particle count
  - Highly recommended for direct injection analysis (DIA)

	MSCERT	MSCERT+
Proprietary cleaning process to reduce particulates	–	+
Packaged in cleanroom conditions	–	+
Cleanest product available on the market	–	+
Vial/closure combination tested by GC/MS and LC/MS	+	+
Batch specific test certificate with MS-chromatograms	+	+
Closures contain very soft ultra-low bleed silicone septa with PTFE layer or bonded caps	+	+
Optimized for trace analysis	+	+



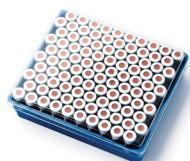
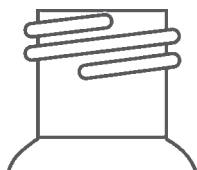
# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits (continued)


## Specification-certified crimp vial and cap kits

Performance level 3 for high performance analysis

### Description

- 11 mm crimp vials and caps
- Specification-certified



Key attributes	Assembled	Insert with PE polyspring
	ID patch/markings spot	-
	Nitrogen purged	-
Vial color and material	Amber glass	Clear glass
Vial total volume	2.0 mL	2.0 mL outer vial, 0.3 mL glass insert
Cap color and material	Silver aluminium	Aluminium
Septum color and material	Red natural rubber/clear TEF	Red natural rubber/clear TEF
Septum thickness	1.0 mm	1.0 mm
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">C4011-2WCV</a>	<a href="#">C4011-95</a>



# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits (continued)

## Specification-certified screw vial and cap kits


Performance level 3 for high performance analysis

### Description

- Short thread screw kit
- 12 mm x 32 mm (diameter x height) fixed conical glass insert
- No marking
- Specification-certified

For use with short thread screw cap closure



Key attributes	Bonded caps
	TPX vials
	0.2 mL with fixed glass insert
Vial color and material	Amber TPX
Vial total volume	200 µL
Vial usable volume	150 µL
Vial residual volume	1 µL
Cap color and material	Black screw cap
Septum color and material	White silicone/red PTFE, bonded and talcum free
Septum thickness	1.0 mm
<b>Ordering information</b>	<b>Cat. no.</b>
100/pack 	<a href="#">6PK1655*</a>
<b>Kit includes</b>	<b>Cat. no.</b>
Kit vial	<a href="#">60180-1655</a>
Kit closure	<a href="#">6PSC9STB1</a>

\*Recommended for Thermo Scientific™ Vanquish™ Neo Systems



# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits (continued)

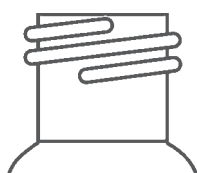
## Specification-certified screw vial and cap kits (continued)


Performance level 3 for high performance analysis

### Description

- Short thread screw kit
- 12 mm × 32 mm (diameter × height) flat bottom base
- Marking spot
- Specification-certified

For use with short thread screw cap closure



Key attributes	GOLD-Grade glass
	SureStop vials
	AVCS caps
Vial total volume	2.0 mL
Vial color and material	Clear glass
Cap color and material	Blue screw cap (PP)
Septum color and material	White silicone/red PTFE
Septum thickness	1.0 mm
Ordering information	Cat. no.
100/pack 	<a href="#">6PKG592W</a>
Kit includes	Cat. no.
Kit vial	<a href="#">6PSV9-1PG</a>
Kit closure	<a href="#">6PSC9ST1</a>



**Learn more about our quality materials:**  
Thermo Scientific SureSTART products—Innovation



**Analyzing polar compounds/compounds prone to glass adsorption?**  
We recommend using our GOLD-Grade glass vials



# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits (continued)

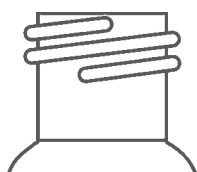
## Specification-certified GOLD-Grade PP screw vial and cap kits


Performance level 3 for high performance analysis

### Description

- Short thread screw kit
- 12 mm × 32 mm (diameter × height)
- No marking
- Specification-certified

These low-bind polypropylene vials have been coated with a 200 nm thick layer of 100% silicon dioxide providing superior chemical inertness and performance. The surface is free from anions and cations, minimizing adsorption, reducing non-specific binding and ensuring that even trace-level samples are recovered reliably.



Key attributes	Bonded	-	-
	Pre-slit septum	-	Pre-slit septum
Vial color and material	Clear GOLD-Grade PP	Clear GOLD-Grade PP	Clear GOLD-Grade PP
Vial total volume	0.4 mL (400 µL)	0.4 mL (400 µL)	0.4 mL (400 µL)
Cap color and material	Gray PP	Blue PP	Blue PP
Septum color and material	White silicone/red PTFE 1.0 mm	White silicone/red PTFE 1.0 mm	White silicone/blue PTFE 1.0 mm
Ordering information			
100/pack 	<a href="#">6PKSV9GCBS1</a>	<a href="#">6PKSV9GCST1</a>	<a href="#">6PKSV9GCSTS1</a>

### Concerned about non-specific binding (NSB)?

We recommend using our GOLD-Grade polypropylene vials





# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits (continued)

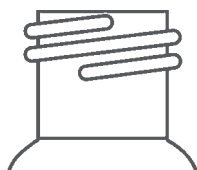
## LC/GC Certified kits: 2 mL vials with 11 mm crimp caps


Performance level 3 for high performance analysis

### Description

- 11 mm crimp vial and cap
- 12 mm × 32 mm (diameter × height) flat bottom base
- Marking spot
- LC-MS/GC-MS Certified

For use with 11 mm crimp caps



Key attributes	ID patch/marketing spot
Vial color and material	Clear glass
Vial total volume	2.0 mL
Cap color and material	Silver aluminium crimp cap
Septum color and material	Red rubber/white PTFE
Septum thickness	1.0 mm
Septum hardness	35° shore
Ordering information	Cat. no.
100/pack 	<a href="#">CERT4011-89W</a>



# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits (continued)

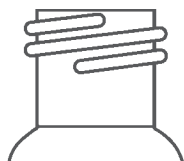
## LC/GC Certified kits: <2 mL vials with 9 mm caps


Performance level 3 for high performance analysis

### Description

- Short thread screw kit
- 12 mm × 32 mm (diameter × height) flat bottom base
- Marking spot
- LC/GC Certified

For use with short thread screw cap closure



Key attributes	Bonded	Bonded
	Pre-slit septum	Pre-slit septum
Vial total volume	1.5 mL total recovery vials	0.3 mL fused insert vial
Vial color and material	Clear glass	Clear glass
Cap color and material	Grey screw cap (PP)	Grey screw cap (PP)
Septum color and material	White silicone/red PTFE	White silicone/red PTFE
Septum thickness	1.0 mm	1.0 mm
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6PCK993</a>	<a href="#">6PCK71LVW</a>
Kit includes	Cat. no.	Cat. no.
Kit vial	<a href="#">6PSV9-TR1</a>	<a href="#">6PSV9-03FIVP</a>
Kit closure	<a href="#">6ASC9STBS1</a>	<a href="#">6ASC9STBS1</a>



# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits (continued)

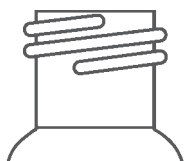
## LC/GC Certified kits: 2 mL vials with 9 mm caps


Performance level 3 for high performance analysis

### Description

- Short thread screw kit
- 12 mm × 32 mm (diameter × height) flat bottom base
- Marking spot
- LC/GC Certified

For use with short thread screw cap closure



Key attributes	Bonded caps	Bonded caps
	Pre-slit septum	Pre-slit septum
Vial total volume	2.0 mL	2.0 mL
Vial color and material	Clear glass	Amber glass
Cap color and material	Grey screw cap (PP)	Grey screw cap (PP)
Septum color and material	White silicone/red PTFE	White silicone/red PTFE
Septum thickness	1.0 mm	1.0 mm
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6PCK93W</a>	<a href="#">6PCK76W</a>
Kit includes	Cat. no.	Cat. no.
Kit vial	<a href="#">6PSV9-1P</a>	<a href="#">6ASV9-2P</a>
Kit closure	<a href="#">6PSC9STBS1</a>	<a href="#">6PSC9STBS1</a>



# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits (continued)

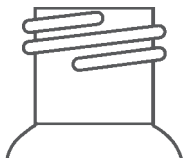
## LC/GC Certified kits: 2 mL vials with 9 mm caps (continued)

Performance level 3 for high performance analysis

### Description

- Short thread screw kit
- 12 mm × 32 mm (diameter × height) flat bottom base
- Marking spot
- LC/GC Certified

For use with short thread screw cap closure



Key attributes	SureStop vials	SureStop vials	SureStop vials	SureStop vials
	AVCS caps	AVCS caps	AVCS caps	AVCS caps
	Pre-slit septum	Pre-slit septum	-	-
Vial total volume	2.0 mL	2.0 mL	2.0 mL	2.0 mL
Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass
Cap color and material	Blue screw cap (PP)	Blue screw cap (PP)	Blue screw cap (PP)	Blue screw cap (PP)
Septum color and material	White silicone/blue PTFE	White silicone/blue PTFE	White silicone/red PTFE	White silicone/red PTFE
Septum thickness	1.0 mm	1.0 mm	1.0 mm	1.0 mm
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6PCK593W</a>	<a href="#">6PCK576W</a>	<a href="#">6PCK578W</a>	<a href="#">6PCK575W</a>
Kit includes	Cat. no.	Cat. no.	Cat. no.	Cat. no.
Kit vial	<a href="#">6PSV9-1PSS</a>	<a href="#">6PSV9-2PSS</a>	<a href="#">6PSV9-1PSS</a>	<a href="#">6PSV9-2PSS</a>
Kit closure	<a href="#">6PSC9STS1</a>	<a href="#">6PSC9STS1</a>	<a href="#">6ASC9ST1</a>	<a href="#">6ASC9ST1</a>



# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits (continued)

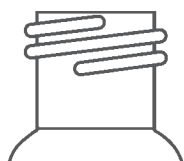
## LC/GC Certified assembled kits: 2 mL vials with 9 mm caps

Performance level 3 for high performance analysis

### Description

- Short thread screw kit
- 12 mm × 32 mm (diameter × height) flat bottom base
- Marking spot
- LC/GC Certified

For use with short thread screw cap closure



Key attributes	Bonded	Bonded
	Pre-slit septum	Pre-slit septum
Vial total volume	2.0 mL	2.0 mL
Vial color and material	Clear glass	Amber glass
Cap color and material	Grey screw cap (PP)	Grey screw cap (PP)
Septum color and material	White silicone/red PTFE	White silicone/red PTFE
Septum thickness	1.0 mm	1.0 mm
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">6PCK193W</a>	<a href="#">6PCK176W</a>
Kit includes	Cat. no.	Cat. no.
Kit vial	<a href="#">6PSV9-1P</a>	<a href="#">6ASV9-2P</a>
Kit closure	<a href="#">6PSC9STBS1</a>	<a href="#">6PSC9STBS1</a>



# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits (continued)

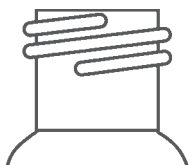
## MSCERT kits

Performance level 3 for high performance analysis

### Description

- Short thread screw kit
- 12 mm × 32 mm (diameter × height) flat bottom base
- Marking spot
- LC-MS/GC-MS Certified

For use with short thread screw cap closure



Key attributes	SureStop vials	SureStop vials	SureStop vials	SureStop vials
	AVCS caps	AVCS caps	AVCS caps	AVCS caps
	-	-	Pre-slit septum	Pre-slit septum
Vial total volume	2.0 mL	2.0 mL	2.0 mL	2.0 mL
Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass
Cap color and material	Blue screw cap (PP)	Blue screw cap (PP)	Blue screw cap (PP)	Blue screw cap (PP)
Septum color and material	Blue silicone/ clear PTFE	Blue silicone/ clear PTFE	Blue silicone/ clear PTFE	Blue silicone/ clear PTFE
Septum thickness	1.0 mm	1.0 mm	1.0 mm	1.0 mm
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6PMSCK534W</a>	<a href="#">6PMSCK535W</a>	<a href="#">6PMSCK540W</a>	<a href="#">6PMSCK541W</a>
Kit includes	Cat. no.	Cat. no.	Cat. no.	Cat. no.
Kit vial	<a href="#">6PSV9-1PSS</a>	<a href="#">6PSV9-2PSS</a>	<a href="#">6PSV9-1PSS</a>	<a href="#">6PSV9-2PSS</a>
Kit closure	<a href="#">6PSC9ST101</a>	<a href="#">6PSC9ST101</a>	<a href="#">6PSC9ST101X</a>	<a href="#">6PSC9ST101X</a>

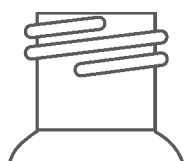


# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits (continued)

## MSCERT kits (continued)

Performance level 3 for high performance analysis

Description
<ul style="list-style-type: none"> <li>• Short thread screw kit</li> <li>• 12 mm x 32 mm (diameter x height) flat bottom base</li> <li>• Marking spot</li> <li>• LC-MS/GC-MS Certified</li> </ul>
For use with short thread screw cap closure



Key attributes	-	-	SureStop vials	SureStop vials
Vial total volume	2.0 mL	2.0 mL	2.0 mL	2.0 mL
Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass
Cap color and material	Blue screw cap (PP)	Blue screw cap (PP)	Blue screw cap (PP)	Blue screw cap (PP)
Septum color and material	White silicone/ beige PTFE	White silicone/ beige PTFE	White silicone/ beige PTFE	White silicone/ beige PTFE
Septum thickness	1.0 mm	1.0 mm	1.0 mm	1.0 mm
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6PMSC641W</a>	<a href="#">6PMSC651W</a>	<a href="#">6PMSC601W</a>	<a href="#">6PMSC611W</a>
Kit includes	Cat. no.	Cat. no.	Cat. no.	Cat. no.
Kit vial	<a href="#">6ASV9-1P</a>	<a href="#">6ASV9-2P</a>	<a href="#">6PSV9-1PSS</a>	<a href="#">6PSV9-2PSS</a>
Kit closure	<a href="#">6ASC9STBS1</a>	<a href="#">6ASC9STBS1</a>	<a href="#">6ASC9STBS1</a>	<a href="#">6ASC9STBS1</a>



# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits (continued)

## MSCERT+ kits

Performance level 3 for high performance analysis

### Description

- Short thread screw kit
- 12 mm × 32 mm (diameter × height) flat bottom base
- Marking spot
- MSCERT+ certified and pre-cleaned

For use with short thread screw cap closure



Key attributes	SureStop vials	SureStop vials	SureStop vials	SureStop vials
	AVCS caps	AVCS caps	AVCS caps	AVCS caps
	-	-	Pre-slit septum	Pre-slit septum
Vial total volume	2.0 mL	2.0 mL	2.0 mL	2.0 mL
Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass
Cap color and material	Blue screw cap	Blue screw cap	Blue screw cap	Blue screw cap
Septum color and material	Blue silicone/clear PTFE	Blue silicone/clear PTFE	Blue silicone/clear PTFE	Blue silicone/clear PTFE
Septum thickness	1.0 mm	1.0 mm	1.0 mm	1.0 mm
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6PMCK34W</a>	<a href="#">6PMCK35W</a>	<a href="#">6PMCK40W</a>	<a href="#">6PMCK41W</a>
Kit includes	Cat. no.	Cat. no.	Cat. no.	Cat. no.
Kit vial	<a href="#">6PSV9-1PSS</a>	<a href="#">6PSV9-2PSS</a>	<a href="#">6PSV9-1PSS</a>	<a href="#">6PSV9-2PSS</a>
Kit closure	<a href="#">6PSC9ST101</a>	<a href="#">6PSC9ST101</a>	<a href="#">6PSC9ST101X</a>	<a href="#">6PSC9ST101X</a>



# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits (continued)

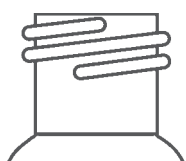
## MSCERT+ kits (continued)


Performance level 3 for high performance analysis

### Description

- Short thread screw kit
- 12 mm × 32 mm (diameter × height) flat bottom base
- Marking spot
- MSCERT+ certified and pre-cleaned

For use with short thread screw cap closure



	-	-	Fused-insert	Fused-insert
Key attributes	Bonded	Bonded	Bonded	Bonded
	-	-	-	Pre-slit septum
Vial total volume	2.0 mL	2.0 mL	0.3 mL	0.3 mL
Vial color and material	Clear glass	Amber glass	Clear glass	Clear glass
Cap color and material	Blue screw cap	Blue screw cap	Blue screw cap	Grey screw cap
Septum color and material	Clear silicon/clear PTFE	Clear silicon/clear PTFE	Clear silicon/clear PTFE	White silicon/red PTFE
Septum thickness	1.0 mm	1.0 mm	1.0 mm	1.0 mm
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">6PMCK341W</a>	<a href="#">6PMCK351W</a>	<a href="#">6PMCK30LVW</a>	<a href="#">6PMCK36LVW</a>
Kit includes	Cat. no.	Cat. no.	Cat. no.	Cat. no.
Kit vial	<a href="#">6PSV9-1P</a>	<a href="#">6ASV9-2P</a>	<a href="#">6PSV9-03FIVP</a>	<a href="#">6PSV9-03FIVP</a>
Kit closure	*	*	*	<a href="#">6PSC9STBS1</a>

\* Not available as single part

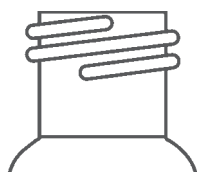



# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits (continued)

## MSCERT+ kits (continued)

Performance level 3 for high performance analysis

Description
<ul style="list-style-type: none"> <li>Total recovery vial</li> <li>Short thread screw vial</li> <li>12 mm x 32 mm (diameter x height) flat bottom base</li> <li>MSCERT+ certified and pre-cleaned</li> </ul>
For use with short thread screw cap closure



Key attributes	Total recovery
	Bonded
	Pre-slit septum
Vial total volume	1.5 mL
Vial color and material	Clear glass
Cap color and material	Grey PP screw cap
Septum color and material	White silicon/red PTFE
Septum thickness	1.0 mm
Ordering information	Cat. no.
100/pack 	<a href="#">6PMCK39TR</a>
Kit includes	Cat. no.
Kit vial	<a href="#">6PSV9-TR1</a>
Kit closure	<a href="#">6PSC9STBS1</a>



# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits (continued)


## EPA assembled kits: 40 mL with 24 mm caps

Performance level 3 for high performance analysis

### Description

- Screw thread 24 mm (24-400)
- 28 mm x 95 mm (diameter x height) flat bottom base
- Processed and packaged under a registered ISO Quality Management System
- Laboratory certified to meet U.S. EPA Super Fund Standards in accordance with the latest edition of EPA's "Specifications and Guidance for Contaminant Free Sample Containers"
- Every case contains a Certificate of Analysis and is custody sealed to ensure reliable chain-of-custody



Key attributes	Assembled
Vial description	40 mL (24 mm) screw glass vial
Vial color and material	Clear
Cap description	Bonded white screw cap (24-400) (PP), open top
Septum color and material	White silicone/clear PTFE
Septum thickness	3.0 mm
Septum hardness	50° shore
Ordering information	Cat. no.
72/pack 	<a href="#">6ACK40COTAS</a>



# Specification-certified, LC/GC Certified, MSCERT and MSCERT+ kits (continued)

## Thermo Scientific™ SureSTART™ TOC certified screw vial and cap kits


Performance level 3 for high performance analysis

### Description

- TOC certification (20 ppb)
- TOC certification (10 ppb)

Our low-level certified vials for Total Organic Carbon testing and sampling are manufactured, tested and packaged by exacting standards. Thermo Scientific™ TOC Certified Containers are certified to contribute <10ppb or < 20ppb TOC as background.



Key attributes	Assembled	
Vial description	40 mL (24 mm) screw glass vial	
Vial color and material	Clear	
Cap description	Bonded white screw cap (24-400) (PP), open top	
Septum color and material	White silicone/clear PTFE	
Septum thickness	3.0 mm	
Septum hardness	50° shore	
Certification level	TOC certification (20 ppb)	TOC certification (10 ppb)
Ordering information	<b>Cat. no.</b>	<b>Cat. no.</b>
72/pack 	<a href="#">6PK40TOC20</a>	<a href="#">6PK40TOC10</a>



# Storage vials and EPA kits

## 12 mm screw vials


Performance level 3 for high-throughput applications

### Description

- Screw thread vial – 15mm/15-425 thread
- 19 x 65 mm dimensions (outer diameter x height)
- Specification-certified

For use with 15 mm screw caps



Key attributes	Silanized
Vial color and material	Amber glass
Total volume	12 mL
Usable volume	11 mL
Ordering information	Cat. no.
200/pack 	<a href="#">B7999-S12A</a>



# Storage vials and EPA kits (continued)

## EPA screw vial and cap kits


Performance level 3 for high-throughput applications

### Description

- 20 mL – 40 mL screw vials with screw closures (24 mm)
- Level 200 EPA vials
- Pre-cleaned

These are processed and packaged under a strict registered ISO Quality Management System. The products are not certified to EPA standards. Every case of product is labelled with its production number and is custody sealed to ensure reliable chain-of-custody. EPA screw vials convenience kits are recommended for discrete water sampling under 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".



Vial color and material	Clear glass	Clear glass
Total volume	20 mL (24 mm/24-400)	40 mL (24 mm/24-400)
Cap color and material	White screw cap (PP) (24 mm), assembled	White screw cap (PP) (24 mm), assembled
Septum color and material	Clear silicone/white PTFE open top	Clear silicone/white PTFE open top
Ordering information	Cat. no.	Cat. no.
72/pack 	<a href="#">20-EPAVCS-PC</a>	<a href="#">40-EPAVCS-PC</a>



# Classical (8-425 screw thread) vials, caps and kits

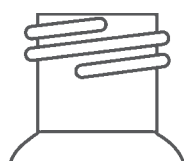
## Classical 8 mm/8-425 screw thread vials



Performance level 3 for high-throughput applications

### Description

- Screw thread closure (8 mm/8-425)
- Narrow neck opening
- 12 mm x 32 mm (diameter x height) flat bottom base
- Specification-certified

For use with 8 mm/8-425 screw caps



Key attributes	Conical/tapered base	Support sleeve for 1.1-STVGN*
Vial color and material	Clear glass	White pom
Total volume	1.2 mL	N/A
Usable volume	1.1 mL	N/A
Residual volume	5 µL	N/A
Ordering information	Cat. no.	Cat. no.
50/pack 	-	<a href="#">60180-TTS312</a>
500/pack 	<a href="#">1.1-STVGN</a>	-

\* Fits every tray/rack for 2 mL vials (12 x 32 mm)



# Classical (8-425 screw thread) vials, caps and kits (continued)

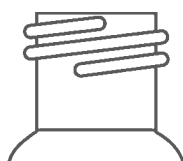
## Classical 8 mm/8-425 screw caps


Performance level 3 for high-throughput applications

### Description

- 8 mm screw caps
- Specification-certified

For use with 8 mm/8-425 screw vials



Key attributes	Pre-slit septum	Pre-slit septum	-	-	Pre-slit septum
Cap color and material	Black PP with flange	Black PP with flange	Black PP	Black PP	Red PP
Septum colour and material	White silicone/blue PTFE	White silicone/red/PTFE	Red PTFE/white silicone/red PTFE	White silicone/red/PTFE	White silicone/red/PTFE
Septum thickness	0.9 mm	1.5 mm	1.0 mm	1.3 mm	1.3 mm
Septum hardness	55° shore	55° shore	45° shore	45° shore	45° shore
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
100/pack 	<a href="#">C4013-64A</a>	<a href="#">C4013-77A</a>	<a href="#">C4013-40A</a>	-	<a href="#">500 077</a>
500/pack	-	-	-	<a href="#">8-SC-ST15</a>	-



# Classical (8-425 screw thread) vials, caps and kits (continued)

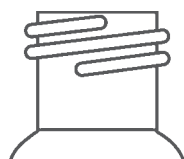
## Classical 8 mm/8-425 caps and septa


Performance level 3 for high-throughput applications

### Description

- Screw thread closure (8 mm/8-425)
- Specification-certified

For use with vials with an 8 mm/8-425 screw thread



Key attributes	Bonded	Bonded, pre-slit
Cap color and material	Black PP	Black PP
Septum colour and material	White silicone/red PTFE	White silicone/red PTFE
Septum thickness	1.3 mm	1.3 mm
Septum hardness	45° shore	45° shore
Ordering information	Cat. no.	Cat. no.
100/pack 	<a href="#">C4013-65A</a>	<a href="#">C4013-69A</a>

# SureSTART vials and caps accessories

## Manual crimpers and decrimpers

### Manual crimpers



Product description	Red manual crimper				Black manual crimper
Suitable for	8 mm crimp caps	11 mm crimp caps	13 mm crimp caps	20 mm crimp caps	32 mm crimp caps
Key attributes	Adjustable and are not for flip top/flip off closures				
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	Cat. no.
1/pack	<a href="#">60180-CR8</a>	<a href="#">60180-CR11</a>	<a href="#">60180-CR13</a>	<a href="#">60180-CR20</a>	<a href="#">C4032-100</a>



Product description	Stainless steel manual crimper				
Suitable for	-	11 mm crimp caps	13 mm crimp caps	20 mm crimp caps	-
Key attributes	Crimper can be sterilized, for clean room applications. Adjustable and are not for flip top/flip off closures.				
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	
1/pack	-	<a href="#">C4012-100SS</a>	<a href="#">C4013-100SS</a>	<a href="#">60180-CR20SS</a>	-




Product description	Black manual crimper				
Suitable for	-	-	13 mm crimp caps	20 mm crimp caps	-
Key attributes	Can be used for flip top/flip off caps				
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.	
1/pack	-	-	<a href="#">C4013-100F</a>	<a href="#">C4020-100F</a>	-


# Manual crimpers and decrimpers (continued)

## Manual decrimpers



<b>Product description</b>	Stainless steel manual decrimper				
<b>Suitable for</b>	-	11 mm crimp caps	13 mm crimp caps	20 mm crimp caps	-
<b>Key attributes</b>	Crimper can be sterilized, for clean room applications. Not adjustable.				
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	
1/pack 	-	<a href="#">C4012-102SS</a>	<a href="#">C4013-102SS</a>	<a href="#">C4020-102SS</a>	-



<b>Product description</b>	Black manual decrimper				
<b>Suitable for</b>	8 mm crimp caps	11 mm crimp caps	13 mm crimp caps	20 mm crimp caps	32 mm crimp caps
<b>Key attributes</b>	Not adjustable				
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
1/pack 	<a href="#">C4008-102</a>	<a href="#">60180-DCR11</a>	<a href="#">60180-DCR13</a>	<a href="#">60180-DCR20</a>	<a href="#">C4032-102</a>

# Storage

## Vial racks

### Description

- 50 cavities (5 x 10)
- No lid, reusable



Product description	Vial rack for 2 mL vials (12 x 32 mm)	Vial rack for 4 ml vials (15 x 45 mm)
Color and material	Blue PP	Blue PP
Ordering information		
1/pack	<a href="#">6EVR1232B</a>	<a href="#">C4015-25</a>

### Description

This 54-vial plate is designed in the ANSI/SLAS (SBS) standard microplate footprint, ensuring compatibility with chromatography systems that support this format, including Thermo Scientific™ Vanquish™ LC systems and PAL System autosamplers from CTC Analytics. Integrated barcodes enable Vanquish LC systems to automatically identify the plate type and verify correct orientation.

- 54 cavities (6 x 9)
- No lid, reusable



Product description	Vial rack for 12 x 54 mm vials
Color and material	Aluminium
Ordering information	
1/pack	<a href="#">60180-1232</a>

# Storage

## Vial storage

### Description

- Storage box
- Suitable for freezer storage
- 100 cavities
- Alphanumeric grid



Product description	Vial storage box for 2 mL vials (12 x 32 mm)
Color and material	PP – 5 assorted colours
Ordering information	
1/pack	<a href="#">B-100</a>

### Description

- Drawer unit/mini storeroom
- 5.5" x 5.5" x 12" (d x w x h)
- 6 x 100 cavities



Product description	Vial storage unit for 600 (6 packs of 100) of 2mL (12 x 32 mm) vials
Color and material	Blue Plastic with 6 transparent drawers
Ordering information	
1/pack	<a href="#">C4000-MS</a>

# Electronic crimpers and decrimping tools

## Electronic crimpers and decrimpers

The Thermo Scientific electronic crimper portfolio includes tools for 8 mm, 11 mm, 13 mm, and 20 mm crimp caps.

The tools provide all important settings like actual crimp power at one glance. The hand-held crimpers and decrimpers allow crimping of vials with aluminum, pressure release and bi-metal caps while remaining in most sample trays.

The crimp head selection includes also special crimp heads for 13 mm and 20 mm flip-off caps, further specials are available on request.

Attach or remove crimp vial seals with high sample security with a simple, one-handed push of a button.

### Electronic hand-held crimpers and decrimpers

The battery charge icon on the color screen of the hand-held tools changes to red when battery is low. Each hand-held tool comes with fully rechargeable lithium ion battery and universal power supply/recharger and international plug adapters.

For steel caps and/or high numbers of crimp or decrimp processes per day we recommend the Thermo Scientific™ High-Power Crimp Station as it provides high crimping force independent from any battery charge status.



Versatile and programmable crimp station

### Electronic crimpers and decrimpers features and benefits


- Tools available for use with 8 mm, 11 mm, 13 mm, and 20 mm crimp vial caps
- Available as handheld and high-power models
- These electronic vial crimpers also feature adjustable settings for best crimp results and a motor with extended lifetime and no particle emission
- Interchangeable crimper and decrimper jaw sets for Thermo Scientific™ Programmable Electronic High-Power Crimp Stations
- One hand operation with a simple push of a button
- Error message feedback after the incorrect crimping process
- Adjustable settings for best crimp results
- Actual crimp power setting displayed on the color screen.
- 8 different languages available—English, Chinese, Japanese, German, French, Spanish, Italian, Korean
- Motor with extended lifetime and no particle emission
- Free hands for faster crimping operations with the adjustable Thermo Scientific™ Accessory Base for Programmable Electronic High-Power Crimp Stations (Cat. no. ECRH-STAND)
- Each programmable electronic high-power crimp station comes with 12-volt DC supply with power cord
- Crimp and decrimp heads for the programmable electronic high-power crimper are included in the kits or available separately

# Electronic crimpers and decrimping tool (continued)

## Electronic hand-held battery-operated crimper (black)


Generation 4




Product description	Electronic hand-held battery-operated crimper (black). Generation 4, not for flip top/flip off closures			
Suitable for	8 mm crimp caps	11 mm crimp caps	13 mm crimp caps	20 mm crimp caps
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
1/pack 	<a href="#">60180-ECR8</a>	<a href="#">60180-ECR11</a>	<a href="#">60180-ECR13</a>	<a href="#">60180-ECR20</a>

## Electronic hand-held battery-operated decrimper (black)

Generation 4

Product description	Electronic hand-held battery-operated decrimper (black). Generation 4			
Suitable for	-	11 mm crimp caps	13 mm crimp caps	20 mm crimp caps
Ordering information	Cat. no.	Cat. no.	Cat. no.	Cat. no.
1/pack 	-	<a href="#">60180-EDCB11</a>	<a href="#">60180-EDCB13</a>	<a href="#">60180-EDCB20</a>


## Electronic crimper for flip top/flip off crimp closures

Product description	13 mm electronic crimper	20 mm electronic crimper for flip top/flip off closures
Ordering information	Cat. no.	Cat. no.
1/pack 	60180-ECR13FO	60180-ECR20FO

# Electronic crimpers and decrimping tools (continued)


## Electronic high-power programmable crimp station Generation 2



<b>Product description</b>	Electronic high-power crimp station (without crimp heads) (black). Generation 2		
<b>Ordering information</b>	Cat. no.		
1/pack 	<a href="#">60180-ECRHB</a>		



## Electronic high-power programmable crimper kits

<b>Product description</b>	Electronic high-power programmable crimper kit		
<b>Suitable for</b>	11 mm	13 mm	20 mm
<b>Include</b>	11 mm crimp head 11 mm decrimp head	13 mm crimp head 13 mm decrimp head	20 mm crimp head 20 mm decrimp head
<b>Ordering information</b>	Cat. no.	Cat. no.	Cat. no.
1/pack 	<a href="#">60180-ECRH11KIT</a>	<a href="#">60180-ECRH13KIT</a>	<a href="#">60180-ECRH20KIT</a>


# Electronic crimpers and decrimping tools (continued)


## Accessories for electronic high-power programmable crimper




<b>Product description</b>	<b>Accessory base for electronic crimpers:</b> Height adjustable and solvent resistant (consists of base plate and bar)	
<b>Ordering information</b>	<b>Cat. no.</b>	
1/pack 	<a href="#">ECRH-STAND</a>	



<b>Product description</b>	8 mm crimp head	11 mm crimp head	13 mm crimp head	20 mm crimp head
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
1/pack 	<a href="#">ECMJ-8</a>	<a href="#">ECMJ-11</a>	<a href="#">ECMJ-13</a>	<a href="#">ECMJ-20</a>

<b>Product description</b>	13 mm flip top/flip off crimp head	20 mm flip top/flip off crimp head
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
1/pack 	<a href="#">ECMJ-13FO</a>	<a href="#">ECMJ-20FO</a>

## Accessories for electronic high-power programmable decrimper

<b>Product description</b>	11 mm decrimp head	13 mm decrimp head	20 mm decrimp head
<b>Ordering information</b>	<b>Cat. no.</b>	<b>Cat. no.</b>	<b>Cat. no.</b>
1/pack 	<a href="#">ECDJ-11</a>	<a href="#">ECDJ-13</a>	<a href="#">ECDJ-20</a>

# WebSeal Performance level 1 products



## Well plates and mats

Performance level 1 for everyday analysis

**A full selection of high quality sample well plates for your UHPLC, LC and GC applications**

We offer a comprehensive range of Thermo Scientific™ 96- and 384-well plates designed for both complex and routine analyses in high-throughput screening laboratories.

Our broad selection of polypropylene (PP) well plates meets ANSI and SBS standards and is available with various sealing options, ensuring compatibility with most manifolds, autosamplers, and robotic systems.

### Handle more samples in less time

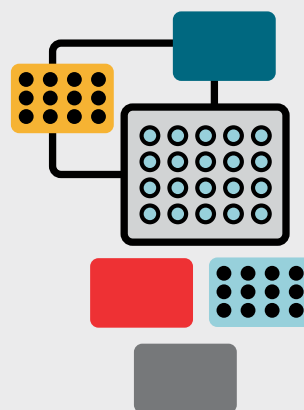
- Low volume and high recovery cavity

### Solutions for all applications

- Chromatography tested for solvent compatibility and inertness

### Ultimate sample security

- Low-leachable, high-purity materials and manufacturing processes





# Well plates and mats (continued)

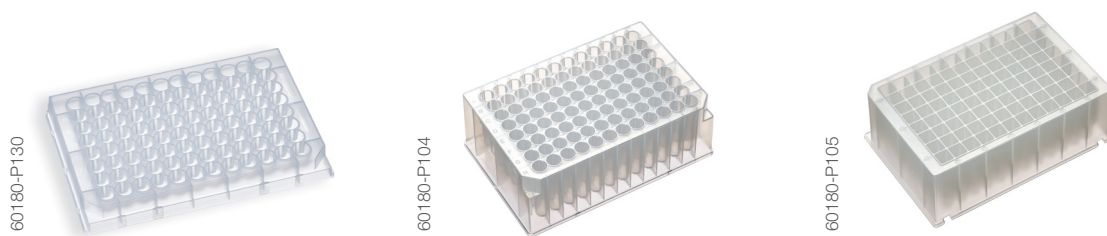
## Performance level 1 for everyday analysis

### WebSeal well plates

Plastic, non-coated, non-sterile, chromatography tested

#### Description

- Thermo Scientific WebSeal well plates are manufactured from a GC/MS tested PP material
- Microplates are chemically and thermally resistant and will tolerate temperatures from -80° C to +121 °C
- SBS and ANSI standard footprint design for broad instrument compatibility
- Microplates are ideal for pharmaceutical applications, sample collection and storage, combinatorial chemistry and HTS applications
- U- and V- bottom wells for optimal sample recovery



Description	Total height	Well format	Total volume (µL)	Working volume range (µL/well)	Pack size	Cat. no.
96-well microplate, round well	14.4	V-shape, 8 mm diameter	450	10-400	20	<a href="#">60180-P100</a>
	14.4	V-shape, 8 mm diameter	450	10-400	120	<a href="#">60180-P130</a>
	14.5	U-shape, 8 mm diameter	500	20-450	10	<a href="#">60180-P102</a>
	14.5	U-shape, 8 mm diameter	500	20-450	120	<a href="#">60180-P132</a>
96-well plates, round well	26.5	U-shape, 8 mm diameter, mid height plate	1100	50-900	50	<a href="#">60180-P154</a>
	31.6	U-shape, 8 mm diameter, mid height plate	1300	50-1000	5	<a href="#">60180-P103</a>
	31.6	U-shape, 8 mm diameter, mid height plate	1300	50-1000	50	<a href="#">60180-P133</a>
	45.3	U-shape, 8 mm diameter, deep-well plate	2000	50-1900	5	<a href="#">60180-P104</a>
	45.3	U-shape, 8 mm diameter, deep-well plate	2000	50-1900	50	<a href="#">60180-P124</a>
96 deep well plate, square well	31.9	U-shape, square, mid height plate	1600	50-1300	96	<a href="#">60180-P155</a>
	43.7	V-shape, square, deep-well plate	2000	50-1900	5	<a href="#">60180-P105</a>
	43.7	V-shape, square, deep-well plate	2000	50-1900	50	<a href="#">60180-P135</a>
384-well microplate	15.5	V-shape, square, micro titer plate	145	4-120	10	<a href="#">60180-P109</a>
	15.5	V-shape, square, micro titer plate	145	4-120	100	<a href="#">60180-P129</a>
	22.0	V-shape, square, mid-height plate	252	5-240	5	<a href="#">60180-P107</a>
	22.0	V-shape, square, mid-height plate	252	5-240	100	<a href="#">60180-P127</a>



# Well plates and mats (continued)

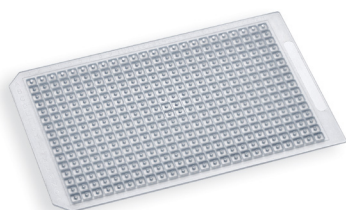
## Performance level 1 for everyday analysis

### WebSeal mats and sealing tapes, non-sterile

For plates with round and square wells of 8 mm or 384-well plates

#### Description

- Mats manufactured of EVA (Ethylene-vinyl acetate) or pure silicone with or without PTFE coating
- The footprint permits plates to be securely stacked without robotic arm interference
- Eliminates cross contamination of samples
- Dry heat autoclavable (only silicone mats) with excellent chemical compatibility, withstand low temperature to -80 °C
- Resists coring and tearing
- Superior resealability after multiple injections
- Available pre-slit for easy penetration and reduced vacuum formation
- Sealing tapes minimize evaporation and protect samples from contamination and spilling.
- Adhesive seals effectively seal all microplate formats
- Wide range of adhesive seals for every assay
- Thin, lightweight tapes seal onto the plate with a convenient, handheld applicator (available separately, Cat. no. 60180-M950)



60180-M126



60180-M121



60180-M123



60180-M999



# Well plates and mats (continued)

## Performance level 1 for everyday analysis

### WebSeal mats and sealing tapes, non-sterile Continued

For plates with round and square wells of 8 mm or 384-well plates

Description	Color	Material	Well design	Pre-slit	Pack size	Cat. no.
WebSeal mats CLR silicone mat, round well	Clear	Silicone	96 round well, 8 mm diameter, flat base	Yes	10	<a href="#">60180-M100</a>
	Clear	Silicone	96 round well, 8 mm diameter, flat base	Yes	50	<a href="#">60180-M130</a>
	Clear	Silicone	96 round well, 8 mm diameter, flat base with cross	No	50	<a href="#">60180-M184</a>
WebSeal mats (alcohol resistant), round well	Clear	EVA	96 round well, 8 mm diameter	No	5	<a href="#">60180-M101</a>
	Clear	EVA	96 round well, 8 mm diameter	No	50	<a href="#">60180-M171</a>
WebSeal CLR silicone mat, round well	Clear	Silicone	96 round well – flat base, 8 mm diameter, large penetration area	No	5	<a href="#">60180-M134</a>
	Clear	Silicone	96 round well – flat base, 8 mm diameter, large penetration area	Yes	5	<a href="#">60180-M183</a>
WebSeal mats (solvent resistant), round well	Blue	Silicone/PTFE	96 round well – flat base, 8 mm diameter, large penetration area	No	5	<a href="#">60180-M102</a>
	Blue	Silicone/PTFE	96 round well – flat base, 8 mm diameter, large penetration area	Yes	5	<a href="#">60180-M103</a>
WebSeal mats (alcohol resistant), square well	Clear	EVA	96 square well – flat base	No	5	<a href="#">60180-M177</a>
	Clear	EVA	96 square well – flat base	No	50	<a href="#">60180-M178</a>
WebSeal CLR silicone mat, square well	Clear	Silicone	96 square well – flat base, 8 mm diameter, large penetration area	No	5	<a href="#">60180-M121</a>
	Clear	Silicone		Yes	5	<a href="#">60180-M123</a>
	Clear	Silicone	96 square well – flat base, 8 mm diameter, flat base with cross	No	50	<a href="#">60180-M185</a>
	Clear	Silicone	384 square well	No	5	<a href="#">60180-M126</a>
	Clear	Silicone	384 square well	Yes	5	<a href="#">60180-M150</a>
	Clear	Silicone	384 square well, flat base with cross	No	50	<a href="#">60180-M186</a>
Sealing tape, -40 °C – 90 °C	Clear	PE/silicone	-	No	100	<a href="#">60180-M142</a>
Sealing tape, -70 °C – 100 °C	Clear	PES/silicone	-	No	100	<a href="#">60180-M143</a>
Sealing tape, -80 °C – 120 °C	Silver	Aluminum/silicone	-	No	100	<a href="#">60180-M144</a>
Sealing tape with SRA (synthetic rubber adhesive)	Clear	Polyolefin/rubber	-	No	100	<a href="#">60180-M145</a>
Re-sealing tape with 3 layer no adhesive at cavity area	Clear	PET/silicone/	-	Yes	100	<a href="#">60180-M146</a>
	Clear	PET	-	Yes	25	<a href="#">60180-M176</a>
Hand held sealing tape applicator	Gold	-	-	-	2	<a href="#">60180-M950</a>
Hand held mat applicator	Black	-	-	-	1	<a href="#">60180-M999</a>
WebSeal cutter for vial removal	Silver	-	-	-	1	<a href="#">60180-M975</a>

# WebSeal Performance level 2 products



## Well plates and mats

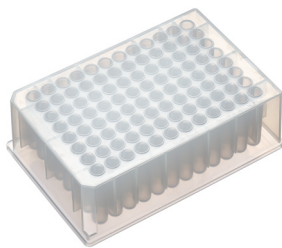
Performance level 2 for high-throughput applications

### WebSeal well plates

Plastic, non-coated, non-sterile, certified

#### Description

- PP microplates are manufactured from ultra low bleed high purity basis resin
- Plates are tested by GC-MS and LC-MS for organic extractables
- Microplates are chemically and thermally resistant and will tolerate temperatures from -80 °C to +121 °C
- SBS and ANSI standard footprint design for broad instrument compatibility
- Microplates are ideal for pharmaceutical applications, sample collection and storage, combinatorial chemistry and HTS applications
- U- and V- bottom wells for optimal sample recovery, total V-plates for low volume applications



60180-P201



60180-P202



60180-P204



# Well plates and mats (continued)

Performance level 2 for high-throughput applications

## WebSeal well plates

Plastic, non-coated, non-sterile, certified

Description	Total height	Well format	Total volume (µL)	Working volume range µL/well	Pack size	Cat. no.
96-well microplate, low volume	15.0	Total V-shape, 5.6 mm diameter	100	5-80	50	<a href="#">60180-P210</a>
96-well microplate, round well	14.7	Flat bottom, 7 mm diameter	380	10-350	100	<a href="#">60180-P205</a>
	14.7	Flat bottom, 7 mm diameter	380	10-350	10	<a href="#">60180-P215</a>
	14.7	U-shape, 7 mm diameter	320	10-300	100	<a href="#">60180-P206</a>
	14.7	U-shape, 7 mm diameter	320	10-300	10	<a href="#">60180-P216</a>
	14.7	V-shape, 7 mm diameter	290	10-250	100	<a href="#">60180-P207</a>
	14.7	V-shape, 7 mm diameter	290	10-250	10	<a href="#">60180-P217</a>
	96-well mid height plates, round well	33	U-shape, 7 mm diameter	1000	50-900	50
41.6		U-shape, 7 mm diameter	1200	50-1100	50	<a href="#">60180-P201</a>
41.6		U-shape, 7 mm diameter	1200	50-1100	5	<a href="#">60180-P211</a>
96 deep well plate, square well	44.4	V-shape, 8 mm diameter	2000	50-1900	50	<a href="#">60180-P202</a>
	44.4	V-shape, 8 mm diameter	2000	50-1900	5	<a href="#">60180-P212</a>
384-well microplate	14.4	U-shape, square, micro titer plate	58	2-35	60	<a href="#">60180-P203</a>
	14.4	U-shape, square, micro titer plate	58	2-35	10	<a href="#">60180-P213</a>
	30.2	V-shape, square, deep well plate	300	5-240	48	<a href="#">60180-P204</a>
	30.2	V-shape, square, deep well plate	300	5-240	6	<a href="#">60180-P214</a>



# Well plates and mats (continued)

Performance level 2 for high-throughput applications

## WebSeal mats, non-sterile

For certified well plates with 7 mm round well cavities,  
8 mm square wells or 384-well plates

### Description

- Manufactured of pure silicone with or without PTFE coating
- The footprint permits plates to be securely stacked without robotic arm interference
- Eliminates cross contamination of samples
- Dry heat autoclavable with excellent chemical compatibility, withstand low temperature to -80 °C
- Resists coring and tearing
- Superior resealability after multiple injections
- Available pre-slit for easy penetration and reduced vacuum formation



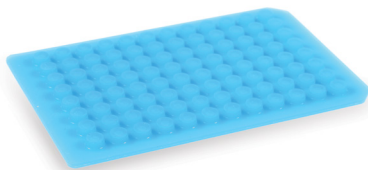
60180-M149



60180-M121



60180-M123



60180-M112



60180-M111



60180-M120



# Well plates and mats (continued)

Performance level 2 for high-throughput applications

## WebSeal mats, non-sterile (continued)

For certified well plates with 7 mm round well cavities,  
8 mm square wells or 384-well plates

Description	Color	Material	Well design	Pre-slit	Pack size	Cat. no.
WebSeal mat (alcohol resistant), round well	Clear	EVA	96 round well, 7 mm diameter	No	100	<a href="#">60180-M179</a>
WebSeal CLR silicone mat, round well	Clear	Silicone	96 round well – flat base, 5.6 mm diameter, cross	No	50	<a href="#">60180-M210</a>
	Clear	Silicone	96 round well – flat base, 7 mm diameter, large penetration area	No	5	<a href="#">60180-M105</a>
	Clear	Silicone	96 round well – flat base, 7 mm diameter, large penetration area	Yes	5	<a href="#">60180-M116</a>
	Clear	Silicone	96 round well – 7 mm diameter, step, small penetration area	Yes	5	<a href="#">60180-M113</a>
	Clear	Silicone	96 round well – 7 mm diameter, step, small penetration area	No	5	<a href="#">60180-M149</a>
WebSeal CLR silicone mat, square well	Clear	Silicone	96 square well – flat base, 8 mm diameter, flat base with cross	No	50	<a href="#">60180-M185</a>
	Clear	Silicone	96 square well – flat base, 8 mm diameter, large penetration area	No	5	<a href="#">60180-M121</a>
	Clear	Silicone	96 square well – flat base, 8 mm diameter, large penetration area	Yes	5	<a href="#">60180-M123</a>
	Clear	Silicone	384 square well for 384-well plates	No	5	<a href="#">60180-M126</a>
	Clear	Silicone	384 square well for 384-well plates	Yes	5	<a href="#">60180-M150</a>
	Clear	Silicone	384 square well, flat base with cross for 384 microtiter plates	No	50	<a href="#">60180-M186</a>
WebSeal mat (solvent resistant), round well	Blue	Silicone/PTFE	96 round well – flat base, step, 7 mm diameter	No	5	<a href="#">60180-M111</a>
	Blue	Silicone/PTFE	96 round well – flat base, step, 7 mm diameter	Yes	5	<a href="#">60180-M112</a>
WebSeal mat (solvent resistant), square well	Blue	Silicone/PTFE	96 square well – flat base, 8 mm diameter, large penetration area	No	5	<a href="#">60180-M120</a>
	Blue	Silicone/PTFE	96 square well – flat base, 8 mm diameter, large penetration area	Yes	5	<a href="#">60180-M122</a>
	Blue	Silicone/PTFE	384 square well for 384-well plates	No	5	<a href="#">60180-M125</a>
	Blue	Silicone/PTFE	384 square well for 384-well plates	Yes	5	<a href="#">60180-M131</a>
WebSeal mat	Blue	Silicone/PTFE	96 round well – dome base, 7.2 mm diameter	No	5	<a href="#">60180-M108</a>
	Blue	Silicone/PTFE	96 round well – dome base, 7.2 mm diameter	Yes	5	<a href="#">60180-M115</a>

# WebSeal Performance level 3 products



## Well plates and mats

Performance level 3 for high performance analysis

### WebSeal Plate+ plates

#### Glass coated microplates

##### Description

- High quality low-bind PP microplates coated with 200 nm thick layer of silicon dioxide
- Plate+ provides microplates with a chemical resistance similar to glass while retaining the advantages of PP
- Cost-effective alternative to inserted glass vials
- Excellent for applications where plastic microplates are not applicable
- Plate+ is chemically and thermally resistant and will tolerate temperatures from -80° C to +80° C
- Lightweight, precision molded, cost-effective alternative to solid glass plates
- The surface is free from anions and cations, minimizing adsorption, reducing non-specific binding and ensuring that even trace-level samples are recovered reliably



Description	Total height	Well format	Total volume (µL)	Working volume (µL)	Pack size	Cat. no.
96-well microplate, round well	14.4	U-shape, 7.0 mm diameter	320	250	10	<a href="#">60180-P330</a>
	14.4	V-shape, 7.0 mm diameter	350	300	10	<a href="#">60180-P332</a>
	14.4	Flat bottom, 7.0 mm diameter	400	350	10	<a href="#">60180-P334</a>
	14.4	V-shape, 7 mm diameter	350	300	100	<a href="#">60180-P333</a>
96-well mid height plate, round well	26.5	U-shape, 8 mm diameter	1100	50 to 900	10	<a href="#">60180-P350</a>
	33	U-shape, 7 mm diameter	1000	50 to 900	10	<a href="#">60180-P343</a>
	40.6	U-shape, 7 mm diameter	1.2 mL	1.0 mL	10	<a href="#">60180-P336</a>
96 deep well plate, square well	43.7	V-shape, 8 mm diameter	2.4 mL	2.0 mL	10	<a href="#">60180-P338</a>
384-well microplate	14.4	Square-rounded, flat, micro titer plate	120	90	10	<a href="#">60180-P340</a>
	14.4	Square-rounded, flat, micro titer plate	120	90	100	<a href="#">60180-P341</a>
	22.0	Square-rounded, U-shape, deep well plate	240	180	6	<a href="#">60180-P342</a>



# Well plates and mats (continued)

Performance level 3 for high performance analysis

## WebSeal glass inserted plate kits

With 96-position mats

### Description

- Convenient wellplate kits with pre-assembled glass vials
- Replacement parts for kits available separately
- Unique cutting tool allows removal of individual samples with the seal in place, eliminating cross contamination
- Mats with solid plugs are used for sample storage



60180-K100



60180-K101



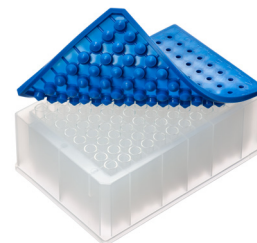
60180-K104



60180-K106



60180-K107



60180-K108



# Well plates and mats (continued)

## Performance level 3 for high performance analysis

### WebSeal glass inserted plate kits (continued)

#### With 96-position mats

Kit type	Vial material	Total volume (µL)	Vial dimension (mm)	Profile	Mat material	Total height (mm)	Pack size	Vial cat. no.	Mat cat. no.	Kit cat. no.
96-well small volume microplate with sealing mat	Clear glass	500	6.5 x 31	Taper	Silicone/PTFE	32.0	5	<a href="#">60180-V100</a>	<a href="#">60180-M151</a>	<a href="#">60180-K100</a>
96-well small volume microplate with sealing mat and cutting tool	Clear glass	700	6.5 x 41.4	Taper	Silicone/PTFE	44.0	5	<a href="#">60180-V101</a>	<a href="#">60180-M151</a>	<a href="#">60180-K101</a>
	Clear glass	1100	7.45 x 38.5	Round	Silicone/PTFE	41.5	5	<a href="#">60180-V104</a>	<a href="#">60180-M153</a>	<a href="#">60180-K104</a>
96 deep well plate with sealing mat	Clear glass	1500	7.25 x 60.5	Round	Silicone/PTFE	64.5	5	<a href="#">60180-V106</a>	<a href="#">60180-M153</a>	<a href="#">60180-K106</a>
96 square well plate with sealing mat	Clear glass	1000	7.6 x 45	Constricted	Silicone/PTFE	47.3	1	-	<a href="#">60180-M153</a>	<a href="#">60180-K107</a>
96 square well plate with sealing mat	Clear glass	1000	7.6 x 45	Constricted	Silicone/PTFE Precut	47.3	1	-	<a href="#">60180-M154</a>	<a href="#">60180-K108</a>

# WebSeal kit accessories

## WebSeal kit accessories

### WebSeal 96-well mats

Silicone/PTFE

Kit type	Details	Pre-slit	Pack size	Cat. no.
96-well WebSeal mat	60180-K100, 60180-K101	No	5	<a href="#">60180-M151</a>
		Yes	5	<a href="#">60180-M152</a>
96-well WebSeal mat	60180-K104, 60180-K106	No	5	<a href="#">60180-M153</a>
		Yes	5	<a href="#">60180-M154</a>
96-well WebSeal mat, welled plugs	60180-K107	No	5	<a href="#">60180-M153</a>
	60180-K108	Yes	5	<a href="#">60180-M154</a>
WebSeal cutter for vial removal	-	-	1	<a href="#">60180-M975</a>



60180-M151



60180-M154



60180-M975

# WebSeal kit accessories (continued)

## Plate vials For 96-wells

Kit type	Vial material	Total volume (μL)	Vial dimension (mm)	Profile	Pack size	Cat. no.
Micro titer plate vial for 96-wells	Clear glass	500	6.5 x 31	Taper	500	<a href="#">60180-V100</a>
	Clear glass	700	6.5 x 41.4	Taper	500	<a href="#">60180-V101</a>
	Clear glass	1100	7.45 x 38.5	Round	500	<a href="#">60180-V104</a>
Deep well plate vial for 96-wells	Clear glass	1500	7.25 x 60.5	Round	500	<a href="#">60180-V106</a>



60180-V100



60180-V101



60180-V104



60180-V106

# WebSeal kit accessories (continued)

## Well plates and racks

Kit type	Plate/ rack material	Total volume ( $\mu$ L)	Profile	Total height (mm)	Pack size	Cat. no.
Plastic 96 round well micro titer plate (60180-K100)	PP	800	V-shape, 7 mm diameter	31.5	5	<a href="#">60180-P400</a>
PP 96 round well micro rack (60180-K101)	PP	1200	U-shape, 7 mm diameter	41.6	5	<a href="#">60180-P211</a>
PP 96-well square well plate (60180-K107/108)	PP	2000	U-shape, square	44.0	1	<a href="#">60180-P403</a>
PP 96-well square well plate (60180-K106)	PP	2000	V-shape, square	44.0	5	<a href="#">60180-P212</a>



**60180-P400**

## Plate vials and accessories

For 96-wells

Kit type	Vial material	Total volume (µL)	Vial dimension (mm)	Profile	Septum	Pack size	Cat. no.
Deep well plate vial for 96-wells	Clear glass	350	6 x 42.5	Taper	-	960	<a href="#">60180-V109</a>
Square well vial for 96-wells	Clear glass	1000	7.6 x 45.9	Round	-	960	<a href="#">60180-V110</a>
PE cap, red, center hole for 96-well plate inserts	-	-	-	-	Silicone/PTFE, pre-slit, 45°	96	<a href="#">60180-C100</a>
Micro-tube-rack-system, positions (Cat. no. 60180-K104)	-	-	-	-	-	96	<a href="#">60180-P407</a>



60180-V109



60180-V110



60180-C100

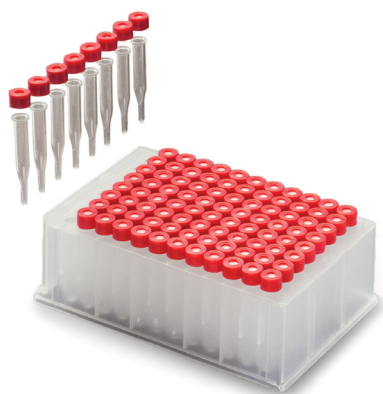
## WebSeal clear glass inserted plate kits

With individual closures

### Description

- 96 position block systems with glass inserts are used when the pure PP block is not inert enough
- Inserts manufactured from clear, Type 1 Class A Glass
- Inserts are sealed individually with a PE Cap Seal and can be easily removed and used externally without risk of losing sample
- The products can be obtained as individual components or as completely assembled, ready-to-use convenience blocks

Kit type	Total volume (µL)	Vial dimension (mm)	Profile	Septum	Pack size	Vial cat. no.	Cap cat. no.	Kit cat. no.
96-well deep plate	350	6 x 42.5	Taper	Silicone/PTFE, pre-slit, 45°	1	<a href="#">60180-V109</a>	<a href="#">60180-C100</a>	<a href="#">60180-K201</a>
96-well square plate	1000	7.6 x 45.9	Round	Silicone/PTFE, pre-slit, 45°	1	<a href="#">60180-V110</a>	<a href="#">60180-C100</a>	<a href="#">60180-K203</a>



60180-K201



60180-K203

## Barcoded well plates for Vanquish HPLC and UHPLC systems

### Description

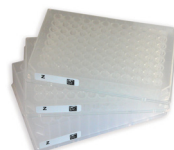
- These well plates provide advanced sample security and sample integrity.
- This secure choice offers a tested portfolio for chromatography applications
- Barcoded well plates have an assured plate fit and a pre-applied orientation barcode in the correct reader position; therefore there is no risk of placing the plate incorrectly
- The secured side orientation in the autosampler alleviates the risk of starting the sequence in the wrong plate orientation
- The instrument controls plate orientation and verifies the plate before implementing the sequence

Description	Total height	Well format	Total volume (µL/well)	Working volume range (µL/well)	Pack size	Cat. no.
<b>Performance Level 1</b>						
96-well mid height plate, round well, barcoded	31,6	U-shape, 8 mm diameter	1300	50-1000	5	<a href="#">60180-P103B</a>
	31,6	U-shape, 8 mm diameter	1300	50-1000	50	<a href="#">60180-P133B</a>
96 deep well plate, square well, barcoded	44	V-shape, square	2000	50-1900	5	<a href="#">60180-P105B</a>
	44	V-shape, square	2000	50-1900	50	<a href="#">60180-P135B</a>
<b>Performance Level 2 - LC-MS/GC-MS tested plates made from ultra low bleed high purity basis resin</b>						
96-well microplate, round well, barcoded	14,7	U-shape, 7 mm diameter	320	10-300	100	<a href="#">60180-P206B</a>
	14,7	U-shape, 7 mm diameter	320	10-300	10	<a href="#">60180-P216B</a>
	14,7	V-shape, 7 mm diameter	290	10-250	100	<a href="#">60180-P207B</a>
	14,7	V-shape, 7 mm diameter	290	10-250	10	<a href="#">60180-P217B</a>
96-well mid height plate, round well, barcoded	42	U-shape, 7 mm diameter	1200	50-900	50	<a href="#">60180-P201B</a>
	42	U-shape, 7 mm diameter	1200	50-900	5	<a href="#">60180-P211B</a>
<b>Performance Level 3 - Plate+ wellplates - PP plates with a low-bind coating reducing non-specific binding</b>						
96-well microplate, round well	14,4	U-shape, 7 mm diameter	320	250	10	<a href="#">60180-P330B</a>
	14,4	V-shape, 7 mm diameter	350	300	10	<a href="#">60180-P332B</a>
	14,4	Flat bottom, 7 mm diameter	400	350	10	<a href="#">60180-P334B</a>
96-well mid height plate, round well	26,5	U-shape, 8 mm diameter	1100	50 to 900	10	<a href="#">60180-P350B</a>
	33	U-shape, 7 mm diameter	1000	50 to 900	10	<a href="#">60180-P343B</a>
	40,6	U-shape, 7 mm diameter	1.2 mL	1.0 mL	10	<a href="#">60180-P336B</a>
96 deep well plate, square well	43,7	V-shape, 8 mm diameter	2.4 mL	2.0 mL	10	<a href="#">60180-P338B</a>

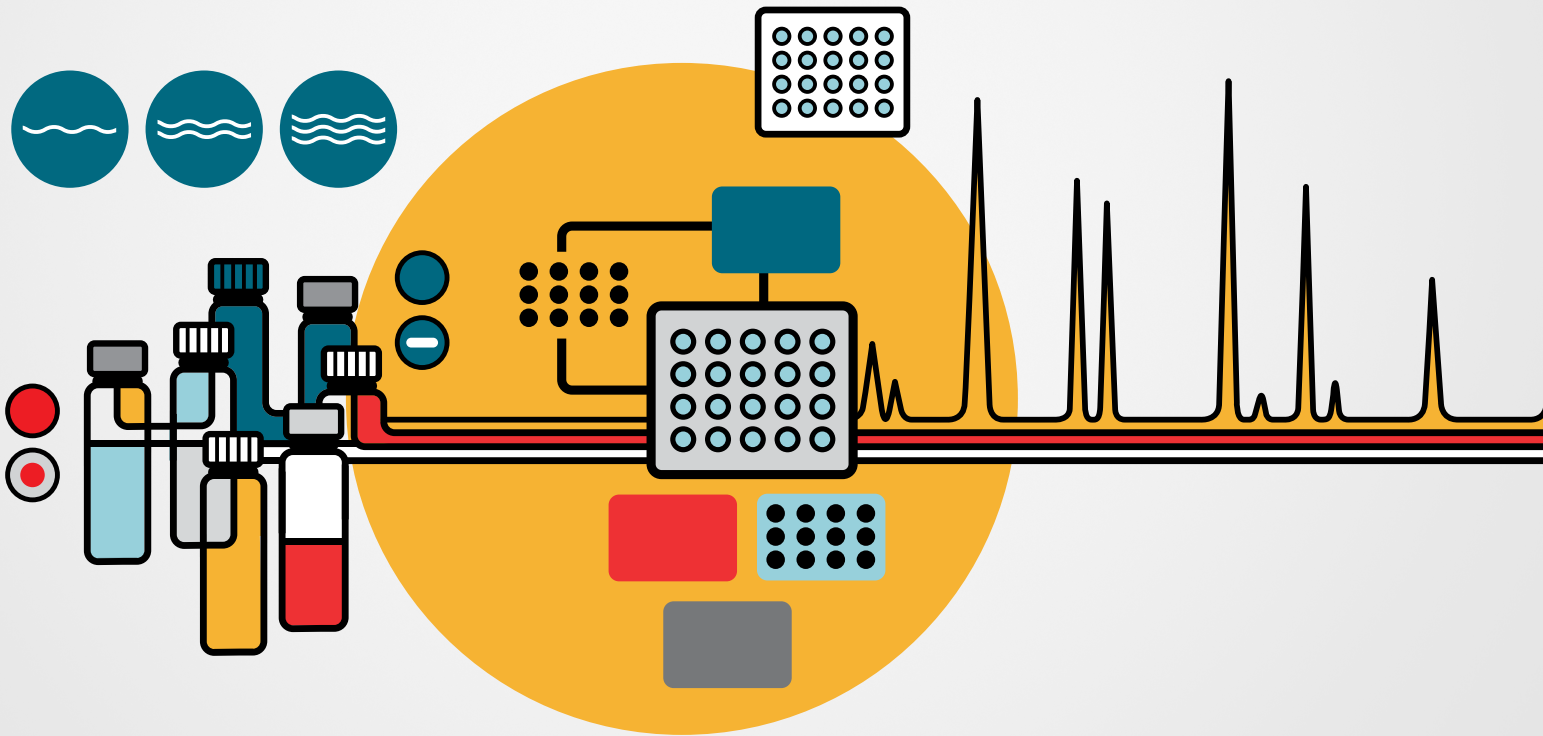
For mats see previous pages with mats for 7 or 8 mm cavity diameter



60180-P206B/216B



P206B/216B



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