

Sample handling

SureSTART collection

Streamlined choice. Trusted quality



Introduction

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

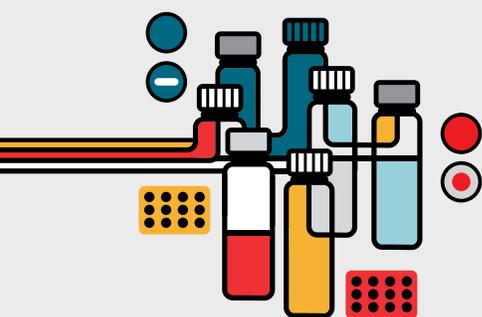
Excellence from start to finish

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 Scientific™, Thermo Scientific™ Chromacol™ and Thermo Scientific™ Sun-SRI™ product names.

All these products are 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 each of our glass vials—and a write-on patch that comes as standard. Making it easier for analysts to select the right product and have it labelled correctly right from the start.

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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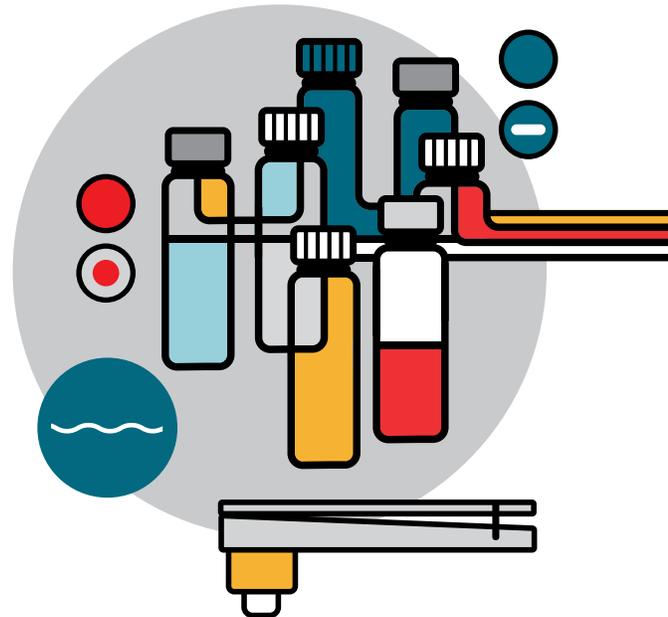
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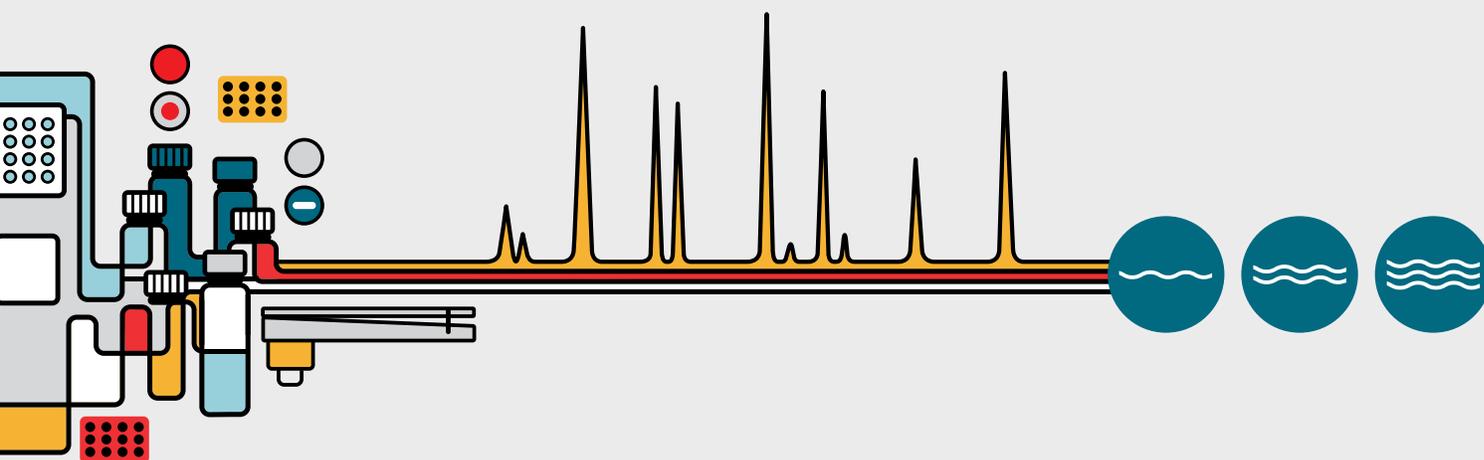
Why Thermo Scientific SureSTART collection?

Five main benefits to you		More ways to master your testing
	Assured quality and performance	Need the highest standards of quality and performance? Our SureSTART collection has you covered with the most stringent standards in the marketplace—ensuring that you can meet every regulatory requirement.
	Instrument compatibility	Our collection contains a broad selection of products to provide complete compatibility for add-on and integrated chromatography autosamplers.
	Sample security and low compound adsorption	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.
	Better product experience	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. 
	Power to extend your consumables budget	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 the highest 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 the highest 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.

Analytical performance requirements

Products	Detector type	Comments
 Thermo Scientific™ SureSTART™ Performance level 1 products	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.
 Thermo Scientific™ SureSTART™ Performance level 2 products	MS	Suitable for routine QA/QC applications using MS technology. Compound concentrations are at easily detectable or low levels of detection.
 Thermo Scientific™ SureSTART™ Performance level 3 products	MS	Suitable for challenging applications, and research-focused applications, using MS technology. Compound concentrations are at/near the method detection limit.



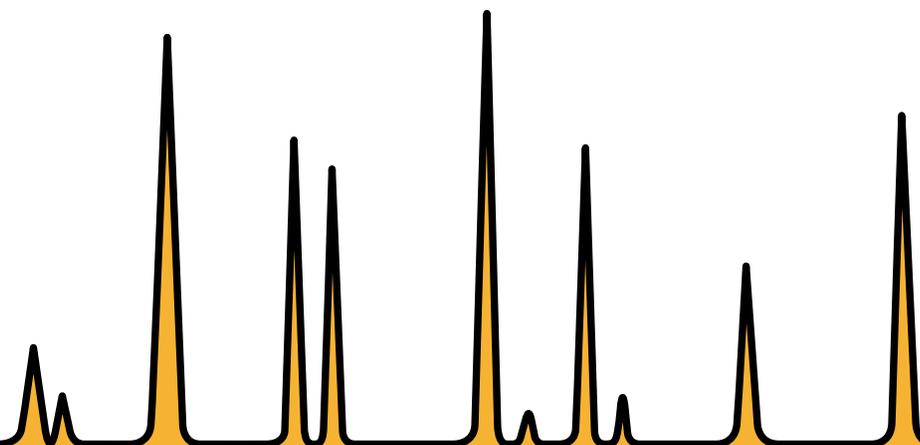
Performance level 1
Everyday analysis:
Chromatography approved



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 cross-reference tool find the equivalent SureSTART product/catalog number for you.



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		
Non-MS Compound levels not challenging	MS Compound levels at relatively low levels	MS Compound levels near method detection limit or for research analysis	Not sample limited	Volumes vary	Limited
↓	↓	↓	↓	↓	↓
SureSTART Performance level 1 General purpose: chromatography approved	SureSTART Performance level 2 high-throughput: for applications requiring robust and reproducible results High-throughput: for applications requiring robust and reproducible results	SureSTART Performance level 3 High performance: for applications requiring high selectivity and sensitivity	2 mL vial SureSTART Performance level 1, 2 and 3	High recovery vial Total recovery vial SureSTART Performance level 3	Polyspring insert (self-aligning) Pulled insert (economical choice) Fused insert vial 2 mL vial with separate inserts 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
↓	↓	↓	↓	↓	↓	↓
Glass vials SureSTART Performance level 1, 2 and 3	*GOLD-grade glass SureSTART Performance level 3	*Silanised glass vials **Polypropylene (PP) vials GOLD-grade glass vials and inserts When low levels of inorganic are required and for solvent stability SureSTART Performance level 1 (PP), 2 and 3 (silanised)	Crimp top vial *SureStop vial Screw thread vial Headspace vials	Screw thread vial Snap-It vial Crimp top vial	Clear vials	Amber vials

*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 PTFE laminated liners required
							
Silicone/PTFE Natural rubber/ TEF	Natural rubber/ TEF Butyl/PTFE	Red Rubber/ PTFE	Silicone/PTFE	Silicone/PTFE	Silicone/PTFE, pre-slit	Silicone/PTFE	PTFE/silicone/ PTFE



Septa Selection Tool

An easy-to-use tool that ensures you find the right septa for your experimental requirements.

About this tool

Choosing the right septa can be complex. There are a number of factors that should be considered including: needle type, seal type, and solvents and temperature that the septa will be exposed to. Let us help you find the right septa for your requirements with this easy-to-use tool.

[Get Started](#)

Why use the Septa Selection Guide?

10 **Needle / autosampler issues**

If you are experiencing needle or autosampler issues (e.g. needle bending or blocking), you may need to change the type of septa you are using.

You may need to consider a pre-slit septa or changing the hardness and / or thickness of your current septa.

11 **Septa compatibility with solvents**

If you are having reusability issues, it might be down to your septa. Some septa are better for non-polar solvents and others are more suitable for polar solvents.

12 **New experimental parameters**

Are you doing a new experiment and can't decide whether your current septa is suitable?

Choosing your well plates and mats

Selecting the perfect 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
↓	↓	↓	↓	↓	↓	↓	↓
WebSeal Plastic, chromatography tested	WebSeal certified products Plastic, MS tested	WebSeal Plate+ Glass-coated plates Plate with glass inserts	WebSeal plastic and certified	WebSeal Plate+ Glass-coated plates Plate with glass inserts	Flat bottom Where sample volume is high	U-Bottom Where sample volume is low	V-Bottom 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*	Shimadzu	Thermo Scientific™ Vanquish™**	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 microtitre, mid well and deep well plates shown above

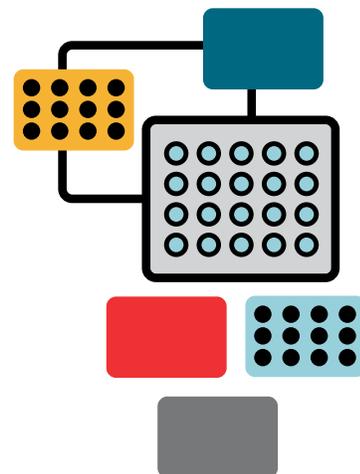
Certified integrity and consistency



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 US FDA, USP, and EU Pharmacopeia standards
- Chemically and thermally resistant well plates are made of the highest 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 AVCS 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



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 GC and HPLC/UHPLC instrument types.

If you are verifying compound presence and quantification using detection techniques such as UV/Vis, PDA, RI, ELSD, FLD, FID, NPD, ECD, TCD, or 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).

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 glass screw	9 mm screw caps
2 mL glass crimp	11 mm crimp caps
20 mL glass crimp headspace	20 mm crimp caps
2 mL polypropylene screw microvials for <2mL sample	9 mm screw caps
2 mL polypropylene snap microvials for <2mL sample	11 mm snap caps

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 polypropylene, aluminium 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 Thermo Scientific 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 US, EU, JPN Pharmacopia
- Uniform and defect-free

Lot traceable

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



Screw vials and associated caps

(<2 mL – 2 mL vials, 9 mm caps)

<2 mL polypropylene screw microvials

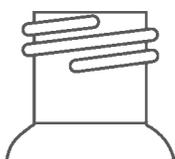
Performance Level 1 for everyday analysis



Comments

- 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



Vial color and material	Clear plastic	Clear plastic
Total volume	0.4 mL	1.5 mL
Usable volume	0.3 mL	1 mL
Residual volume	4 µL	170 µL
Available packs		
100/pack 	17373913	17303923
10 x 100/pack 	17393913	17323923
50 x 100/pack 	17383913	17313923





Screw vials and associated caps Continued

(<2 mL – 2 mL vials, 9 mm caps)

2 mL glass screw vials

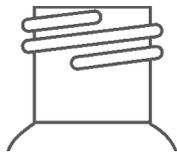
Performance Level 1 for everyday analysis



Comments

- 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 mL	
Usable volume	1.5 mL	
Residual volume	170 µL	



Available packs		
100/pack 	17324143	17354143
10 x 100/pack 	17344143	17374143
50 x 100/pack 	17334143	17364143





Screw vials and associated caps Continued

(<2 mL – 2 mL vials, 9 mm caps)

9 mm screw caps

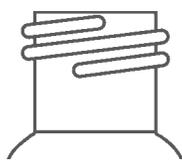
Performance Level 1 for everyday analysis



Comments

- Short thread screw
- 9 mm
- Specification certified

For use with <2 mL and 2 mL screw vials



Cap color and material	—	—	—	—	Bonded	Bonded
	—	—	—	Pre-slit septa	—	Pre-slit septa
Blue polypropylene						
Septum color and material	Red natural rubber/clear TEF	Red silicone/ivory PTFE	White silicone/red PTFE	White silicone/blue PTFE	White silicone/white PTFE	White silicone/white PTFE
Septum thickness	1 mm					
Septum hardness	60 shore	45 shore	55 shore	55 shore	45 shore	45 shore
Available packs						
100/pack	17344123	17374123	17304133	17394133	17334133	17354133
10 x 100/pack	17364123	17394123	17324133	17314143	17384133	17374133
50 x 100/pack	17354123	17384123	17314133	17304143	17344133	17364133





Crimp vials and associated caps

(2 mL, 11 mm caps)



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

2 mL glass crimp vials

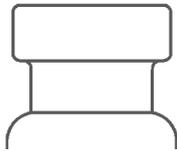
Performance Level 1 for everyday analysis



Comments

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

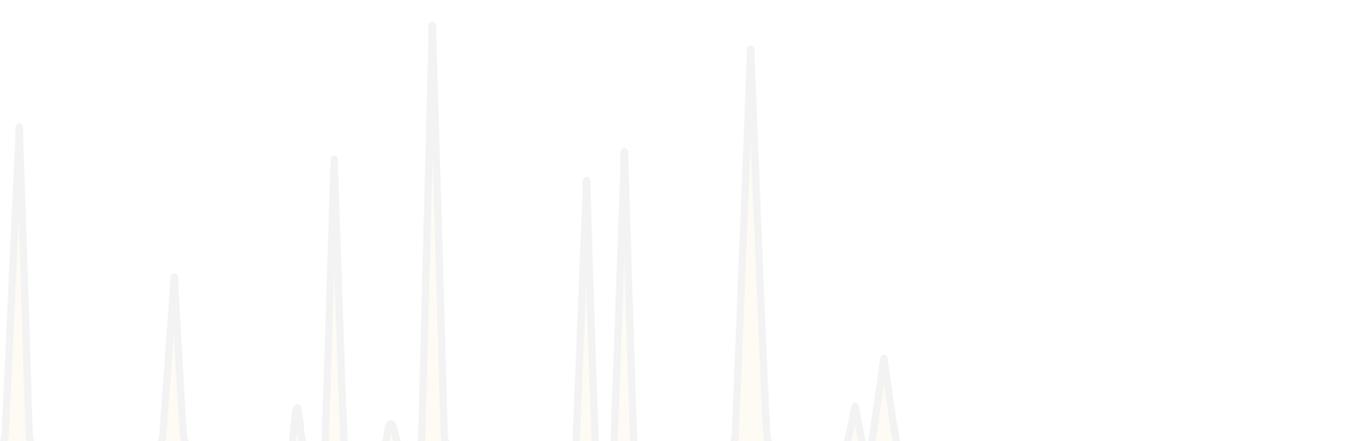
For use with 11 mm crimp caps



Vial color and material	Clear glass	Amber glass
Total volume	2 mL	
Usable volume	1.5 mL	
Residual volume	170 µL	



Available packs		
100/pack 	17354113	17384113
10 x 100/pack 	17374113	17304123
50 x 100/pack 	17364113	17394113





Crimp vials and associated caps Continued

(2 mL, 11 mm caps)

11 mm crimp caps

Performance Level 1 for everyday analysis

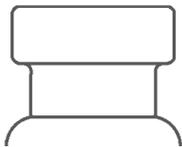


Comments

- 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 aluminium	
Septum color and material	Natural rubber/clear TEF	White silicone/red PTFE
Septum thickness	1 mm	1.3 mm
Septum hardness	60 shore	45 shore



Available packs		
100/pack 	17374093	17304103
10 x 100/pack 	17394093	17324103
50 x 100/pack 	17384093	17314103

Learn more about:

- Manual crimpers and decrimpers
- Electronic crimpers and decrimpers





Snap vials and associated caps

(<2 mL vials, 11 mm caps)

<2 mL polypropylene snap microvials

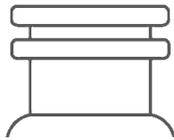
Performance Level 1 for everyday analysis



Comments

- Snap (11 mm)
- 12 mm x 32 mm (diameter x height)
- No marking spot
- Specification certified

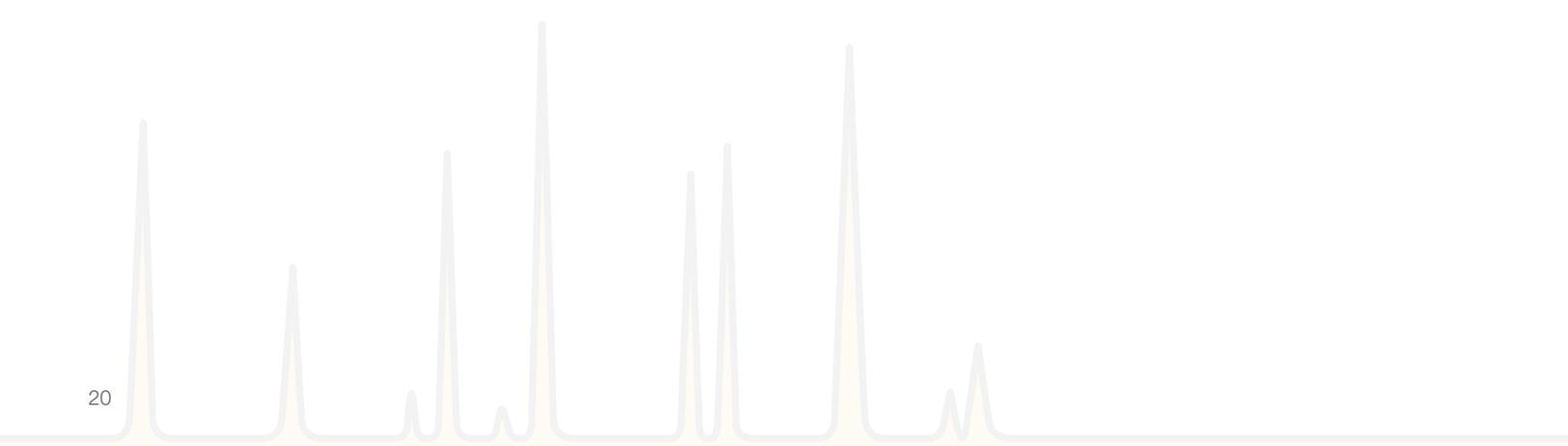
For use with 11 mm snap caps



Vial color and material	Clear polypropylene		
	Conical	Conical	Flat bottom
Total volume	0.3 mL	0.8 mL	1.0 mL
Usable volume	0.2 mL	0.6 mL	0.8 mL
Residual volume	4 µL	6 µL	80 µL



Available packs				
100/pack		17383903	17313913	17343913
10 x 100/pack		17303913	17333913	17363913
50 x 100/pack		17393903	17323913	17353913





Snap vials and associated caps Continued

(<2 mL vials, 11 mm caps)

11 mm snap caps

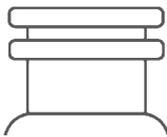
Performance Level 1 for everyday analysis



Comments

- Snap closure (11 mm)
- Specification certified
- Does not re-seal after puncture

For use with <2 mL and 2 mL snap vials



Cap color and material	Blue polyethylene membrane cap
Septum color and material	Membrane thickness 0.5 mm
Septum thickness	This cap comes with no septa
Septum hardness	



Available packs

100/pack		17373903
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Plastic inserts

(2 mL vials)

Plastic inserts for 2 mL vials

Performance Level 1 for everyday analysis



Comments

- 6 mm x 31 mm (diameter x height) (size x height) conical with polyspring base
- 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	Clear glass with clear polypropylene polyspring
Total volume	0.30 mL
Usable volume	0.25 mL
Residual volume	4 µL



Available packs	
100/pack 	17343903
10 x 100/pack 	17363903
50 x 100/pack 	17353903

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

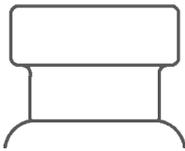
Performance Level 1 for everyday analysis



Comments

- Crimp
- 22.50 mm x 75.5 mm (diameter x height) square rim, round bottom base
- Marking spot
- Specification certified

For use with 20 mm crimp caps



Vial color and material	Clear glass
Total volume	20 mL
Usable volume	18 mL
Residual volume	0.8 mL
Available packs	
100/pack	17314123
10 x 100/pack	17334123





Headspace vials and associated caps Continued

(20 mL vials, 20 mm caps)

20 mm crimp caps

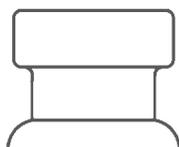
Performance Level 1 for everyday analysis



Comments

- 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 aluminium	Silver aluminium	Gold magnetic steel	Gold magnetic steel
Septum color and material	Molded Grey butyl/ grey PTFE	— Blue silicone/ white PTFE	Molded Grey butyl/ grey PTFE	— Blue transparent silicone/clear PTFE
Septum thickness	3 mm			
Septum hardness	50 shore	45 shore	50 shore	45 shore
Available packs				
100/pack	17334103	17394103	17354103	17314113
10 x 100/pack	17384103	17344113	17374103	17334113
50 x 100/pack	17344103	17304113	17364103	17324113



Learn more about:

- Manual crimpers and decrimpers
- Electronic crimpers and decrimpers





Stoppers

20 mm stopper

Performance Level 1 for everyday analysis



Comments

- Specification certified

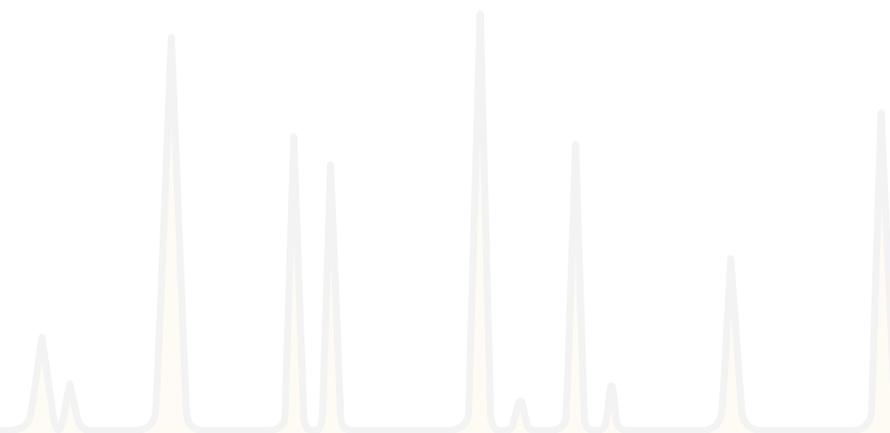
For use with vials (e.g. 10 mL/20 mL crimp vials) with diameter neck size of 20 mm



Product description	Stopper (20 mm)
Color and material	Grey bromobutyl
Septum thickness	3 mm
Septum hardness	45 shore



Available packs	
100/pack 	17344093
10 x 100/pack 	17364093
50 x 100/pack 	17354093



Performance level 2: High-throughput analysis

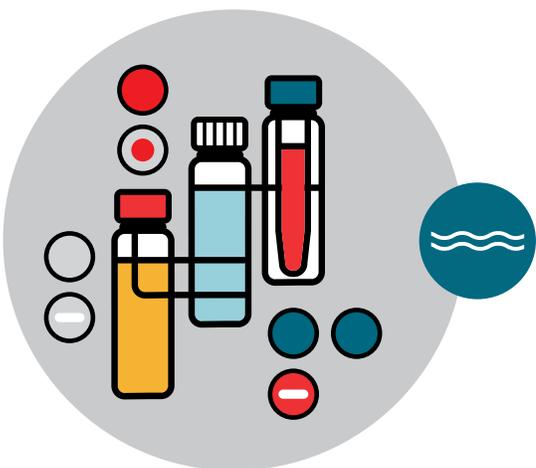
When robustness and reproducibility are key

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 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 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 can be found within performance level 2
- Buy vials and caps in bulk for greater savings

Specification certified

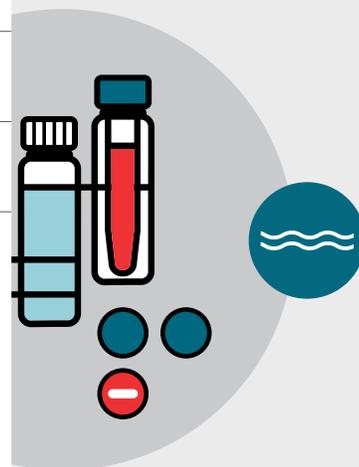
- All Thermo Scientific SureSTART vials are dimensionally verified to ensure autosampler compatibility
- Inspected by automated optical and gauge inspection to ensure critical dimensions and tolerances
- Vials meet all requirements of US, EU, JPN Pharmacopia
- Uniform and defect-free

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
1.7 mL glass high recovery screw microvials for <2 mL sample	9 mm screw caps
2 mL glass screw vials	11 mm crimp caps
2 mL glass crimp vials	11 mm snap caps
2 mL glass snap vials	11 mm snap caps
Inserts for 2 mL vials	—
4 mL glass screw vials	13 mm screw caps
10 mL glass screw vials	20 mm crimp caps
10 mL glass crimp headspace	20 mm crimp caps
20 mL glass screw vials	20 mm crimp caps
20 mL glass crimp headspace	20 mm crimp caps
20 mm stoppers and septa	—
Kits	
Specification certified	EPA
Scintillation	—





Screw vials and associated caps

(<2 mL – 2 mL vials, 9 mm caps)

1.7 mL high-recovery glass screw microvials for <2 mL samples

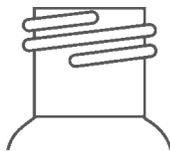
Performance Level 2 for high-throughput applications



Comments

- 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



Available packs	
100/pack 	17313903
10 x 100/pack 	17333903
50 x 100/pack 	17323903





Screw vials and associated caps Continued

(<2 mL – 2 mL vials, 9 mm caps)

2 mL glass screw vials

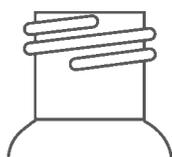
Performance Level 2 for high-throughput applications



Comments

- 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		
Usable volume	1.5 mL		
Residual volume	170 µL		



Available packs			
100/pack	17343893	17373893	17303903
10 x 100/pack	17363893	17393893	—
50 x 100/pack	17353893	17383893	—

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

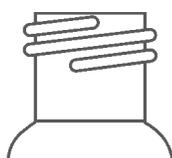
Performance Level 2 for high-throughput applications



Comments

- Short thread screw
- 9 mm
- Specification certified

For use with <2 mL and 2 mL screw vials



Cap components	—	Bonded	Bonded	—	—	—	
	—	Pre-slit	—	—	—	—	
Cap color and material	Blue polypropylene			Red polypropylene			
Septum color and material	White silicone/red PTFE	White silicone/beige PTFE	White silicone/beige PTFE	Red rubber/ivory PTFE	White silicone/red PTFE	Red rubber/ivory PTFE	
Septum thickness	1 mm						
Septum hardness	45 shore	45 shore	45 shore	45 shore	45 shore	45 shore	
Available packs							
100/pack		17383863	17373873	17343873	17323863	17303873	17343863
10 x 100/pack		17333873	17393873	17363873	17373863	17323873	17363863
50 x 100/pack		17393863	17383873	17353873	17333863	17313873	17353863





Crimp vials and associated caps

(2 mL vials, 11 mm caps)

2 mL glass crimp vials

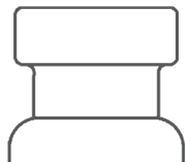
Performance Level 2 for high-throughput applications



Comments

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

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



Vial color and material	Clear glass	Amber glass
Total volume	2 mL	
Usable volume	1.7 mL	
Residual volume	170 µL	



Available packs		
100/pack 	17333793	17363793
10 x 100/pack 	17353793	17383793
50 x 100/pack 	17343793	17373793





Crimp vials and associated caps Continued

(2 mL vials, 11 mm caps)

11 mm crimp caps

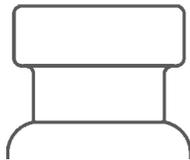
Performance Level 2 for high-throughput applications



Comments

- 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 aluminium closure	
Septum color and material	White silicone/red PTFE	Red rubber/ivory PTFE
Septum thickness	1 mm	
Septum hardness	45 shore	60 shore



Available packs		
100/pack 	17383773	17353773
10 x 100/pack 	17303783	17373773
50 x 100/pack 	17393773	17363773

Learn more about:

- Manual crimpers and decrimpers
- Electronic crimpers and decrimpers





Snap vials and associated caps

(2 mL vials, 11 mm caps)

2 mL glass snap vials

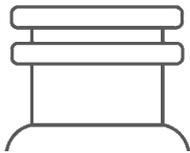
Performance Level 2 for high-throughput applications



Comments

- 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 mL	
Usable volume	1.7 mL	
Residual volume	170 µL	



Available packs		
100/pack 	17353853	17383853
10 x 100/pack 	17373853	17303863
50 x 100/pack 	17363853	17393853

Need a smaller volume?

- Why not use with our polyspring glass inserts





Snap vials and associated caps Continued

(2 mL vials, 11 mm caps)

11 mm snap caps

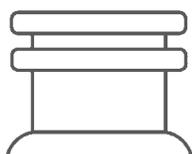
Performance Level 2 for high-throughput applications



Comments

- Snap closure (11 mm)
- Specification certified

For use with 11 mm glass or plastic snap vials

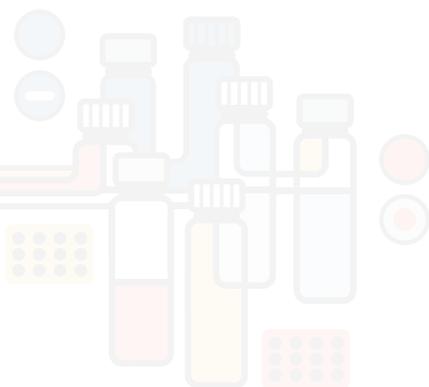


Cap color and material	Blue polyethylene	Blue polyethylene	Red polyethylene	Red polyethylene
Septum color and material	White silicone/ red PTFE	Natural rubber/ clear TEF	White silicone/ red PTFE	Natural rubber/ clear TEF
Septum thickness	1 mm			
Septum hardness	45 shore	60 shore	55 shore	60 shore



Available packs

100/pack		17393843	17333843	17313853	17353843
10 x 100/pack		17343853	17383843	17333853	17373843
50 x 100/pack		17303853	17343843	17323853	17363843





Screw vials and associated caps

(4 mL vials, 13 mm caps)

4 mL glass screw vials

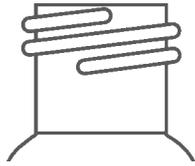
Performance Level 2 for high-throughput applications



Comments

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

For use with 13 mm screw caps



Vial color and material	Clear glass	Amber glass
Total volume	4.0 mL	
Usable volume	3.5 mL	
Residual volume	800 µL	
Available packs		
100/pack 	17363883	17373883





Screw vials and associated caps Continued

(4 mL vials, 13 mm caps)

13 mm screw caps

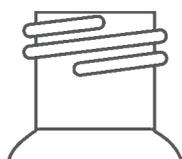
Performance Level 2 for high-throughput applications



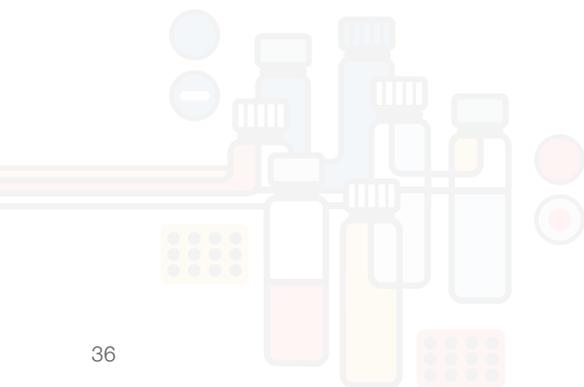
Comments

- Short thread screw 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	—	Pre-slit septa
Septum color and material	Black polypropylene	White polypropylene
Septum thickness	White silicone/red PTFE	White silicone/blue PTFE
Septum hardness	1.5 mm	
Available packs	55 shore	45 shore
100/pack	17313863	17324043





Screw vials and associated caps Continued

(4 mL vials, 13 mm caps)

10 mL glass screw headspace vials

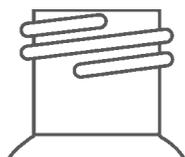
Performance Level 2 for high-throughput applications



Comments

- Screw
- 22.5 mm x 46 mm (diameter x 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



Available packs		
100/pack		17303883
10 x 100/pack		17323883
50 x 100/pack		17313883





Screw vials and associated caps Continued

(4 mL vials, 13 mm caps)

20 mL glass screw headspace vials

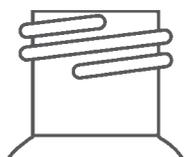
Performance Level 2 for high-throughput applications



Comments

- Screw
- 22.5 mm x 75 mm (diameter x height) round bottom base
- Marking spot
- Specification certified

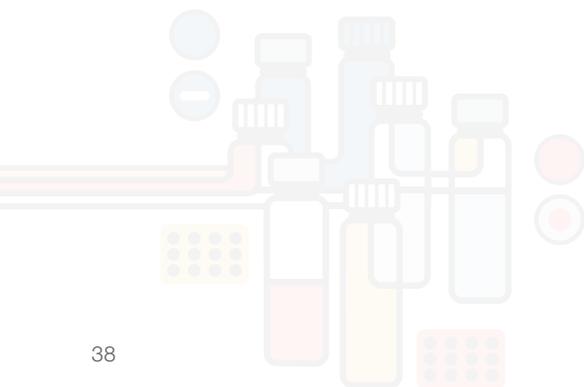
For use with 18 mm screw caps



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



Available packs		
100/pack 	17383883	17313893
10 x 100/pack 	17303893	17333893
50 x 100/pack 	17393883	17323893





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

10 mL glass crimp headspace vials

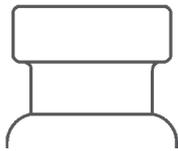
Performance Level 2 for high-throughput applications



Comments

- Crimp
- 22.50 mm x 46 mm (diameter x 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	
Usable volume	8 mL	
Residual volume	0.8 mL	



Available packs			
100/pack		17373783	17303793
10 x 100/pack		17393783	17323793
50 x 100/pack		17383783	17313793





Headspace crimp vials and associated caps Continued

(10 mL – 20 mL vials, 20 mm caps)

20 mL glass crimp headspace vials

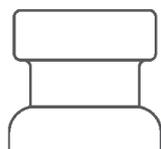
Performance Level 2 for high-throughput applications



Comments

- Crimp
- 22.50 mm x 75 mm (diameter x height) round bottom base with beveled edge rim (17323803)
- 23 mm x 75.5 mm (diameter x height) round bottom base with beveled edge rim (17393793, 17353803)
- Marking spot
- Specification certified

For use with 20 mm crimp caps



Vial color and material	Clear glass		Amber glass
Vial diameter and length	22.50 x 75.0	23.00 x 75.5	23.00 x 75.5
Total volume	20 mL		
Usable volume	18 mL		
Residual volume	0.8 mL		



Available packs				
100/pack		17323803	17393793	17353803
10 x 100/pack		17343803	17313803	17373803
50 x 100/pack		17333803	17303803	17363803

17393793 and 17353803 fit Perkin-Elmer 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

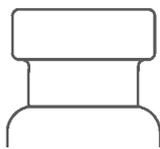


Comments

- 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 components	–	–	–	Magnetic	Magnetic
	–	–	Pressure release	–	Suitable for high temperature
	–	–	–	Soft septa	–
Cap color and material	Silver aluminium	Silver aluminium	Silver aluminium	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



Available packs						
100/pack		17313783	17343783	17303843	17343833	17373833
10 x 100/pack		17333783	17363783	17323843	17363833	17393833
50 x 100/pack		17323783	17353783	17313843	17353833	17383833

Learn more about:

- Manual crimpers and decrimpers
- Electronic crimpers and decrimpers





Stoppers and septa

20 mm stoppers and septa

Performance Level 2 for high-throughput applications



Comments

- **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)
Color and material	Grey bromobutyl	White silicone/beige PTFE
Septum thickness	3.0 mm	3.2 mm
Septum hardness	45 shore	



Available packs		
100/pack 	17393763	17323773
10 x 100/pack 	17313773	17313773
50 x 100/pack 	17303773	17303773





Specification certified vial and cap kits, EPA kits, and scintillation kit

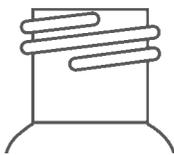
Specification certified screw vial and cap kits

Performance Level 2 for high-throughput applications



Comments

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



Key attributes	AVCS				
Vial color and material	Clear glass	Amber glass	Clear glass	Clear glass	Amber glass
Vial total volume	2 mL				
Cap color and material	Blue polypropylene				
Septum color and material	Red silicone/ ivory PTFE	Red silicone/ ivory PTFE	Red PTFE/white silicone/red PTFE	White silicone/ red PTFE	White silicone/ red PTFE
Available packs					
100/pack	 17353823	17363823	17373823	17303833	17323833





Specification certified vial and cap kits, EPA kits, and scintillation kit

Continued

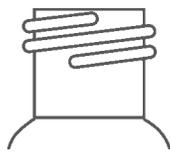
Specification certified screw vial and cap kits Continued

Performance Level 2 for high-throughput applications



Comments

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



Key attributes	SureStop/ AVCS	SureStop/ AVCS	AVCS	AVCS	Bonded	Bonded
	–	–	Soft septa	Preslit septa	Preslit septa	–
Vial color and material	Clear glass	Amber glass	Clear glass	Clear glass	Clear glass	Clear glass
Vial total volume	2 mL					
Cap color and material	Blue polypropylene	Blue polypropylene	Blue polypropylene	Blue polypropylene	Grey polypropylene	Black polypropylene
Septum thickness	White silicone/ red PTFE	White silicone/ red PTFE	Blue silicone/ clear PTFE	White silicone/ blue PTFE	White silicone/ red PTFE	White silicone/ red PTFE
Available packs						
100/pack	 17313823	 17323823	 17333823	 17333833	 17313833	 17343823





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

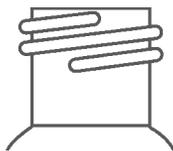


Comments

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

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	Clear glass	Amber glass	Clear glass	Amber glass
Vial total volume	4 mL (13 mm)		8 mL (15 mm)		12 mL (15 mm)	
Cap color and material	White screw cap (PP) (13 mm)			White screw cap (PP) (15 mm)		
Septum color and material	PE foam/white PTFE closed top					



Available packs		Clear glass	Amber glass	Clear glass	Amber glass	Clear glass	Amber glass
100/pack		17303823	17393813	—	—	—	—
2 x 100/pack		—	—	17393823	17383823	17393803	17383803





Specification certified vial and cap kits, EPA kits, and scintillation kit

Continued

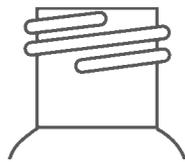
EPA screw vial and cap kits Continued

Performance Level 2 for high-throughput applications



Comments

- 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	16 mL (18 mm 18-400)		20 mL (24 mm /24-400)	
Cap color and material	White screw cap (PP) (18 mm)		White screw cap (PP) (24 mm)	
Septum color and material	PE foam/white PTFE closed top			
Available packs				
100/pack 	—	—	17333813	17323813
2 x 100/pack 	17313813	17303813	—	—





Specification certified vial and cap kits, EPA kits, and scintillation kit

Continued

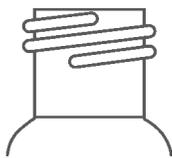
EPA screw vial and cap kits Continued

Performance Level 2 for high-throughput applications



Comments

- 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)			
Septum color and material	Clear silicone/white open top		PE foam/white PTFE closed top	



Available packs					
100/pack		17383813	17363813	17373813	17353813



Key attributes	Scintillation			
Vial color and material	Clear screw			
Vial total volume	20 mL			
Cap color and material	White closed screw cap			
Septum color and material	Silver polypropylene foil			
Available packs				
5 x 100/pack		17343813		



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 Thermo Scientific™ SureSTART™ Performance Level 3 products are packed in clean rooms to protect them against environmental factors, and contain the lowest amounts/levels of metals, extractables and leachable; ensuring that you can get the sensitivity and selectivity from your most challenging analytes confidently and consistently.

If you are looking for the ultimate performance from your methods, whilst maintain the highest levels of and 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 silanised vials and inserts

This offering includes Thermo Scientific 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 have the highest purity as they have been conditioned to remove all the low-mid boiling volatiles providing the lowest extractables and leachables within the collection. You can also find within this performance level soft septa options for ultimate needle performance, as these products offer protection for even the most fragile needles with the highest gauge, and SPME fibers. You can also find our high temperature compatible septa here.

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 (HR-AM) 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 and TPX.
- 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 can be found within performance level 3.
- Buy vials and caps in bulk for greater savings.

Specification certified

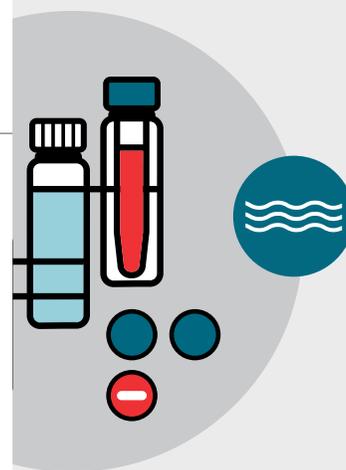
- All Thermo Scientific SureSTART vials are dimensionally verified.
- Inspected by automated optical and gauge inspection to ensure critical dimensions and tolerances.
- Meet all relevant requirements of US, EU, JPN Pharmacopeia.
- Uniform and defect-free

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 microvial	
Glass screw microvials	
1.5 mL total recovery glass screw microvials	
1.7 mL high recovery glass screw microvials	9 mm screw caps
2 mL glass screw vials	
2 mL GOLD-grade glass screw vials	
Glass crimp microvials	
2 mL GOLD-grade glass crimp vial	
2 mL glass crimp vials	11 mm crimp caps
Glass snap microvials	
1.5 mL total recovery glass snap microvials	
High recovery glass snap microvials	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	MSCERT and MSCERT+
TOC	—





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 microvial with glass insert

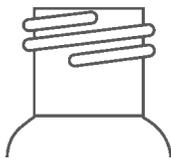
Performance Level 3 for high performance analysis



Comments

- 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
Available packs	
100/pack 	17303763





Screw vials and associated caps Continued

(<2 mL – 2 mL vials, 9 mm caps)

Glass screw microvials

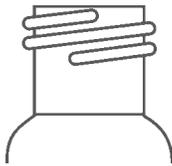
Performance Level 3 for high performance analysis



Comments

- 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	
Usable volume	250 µL	
Residual volume	4 µL	



Available packs		
100/pack 	17324073	17394063
10 x 100/pack 	17344073	17314073
50 x 100/pack 	17334073	17304073





Screw vials and associated caps Continued

(<2 mL – 2 mL vials, 9 mm caps)

1.5 mL total recovery glass screw microvial

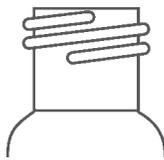
Performance Level 3 for high performance analysis



Comments

- 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



Available packs	
100/pack 	17384083
10 x 100/pack 	17304093
50 x 100/pack 	17394083





Screw vials and associated caps Continued

(<2 mL – 2 mL vials, 9 mm caps)

1.7 mL high recovery glass screw microvial

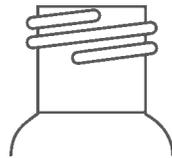
Performance Level 3 for high performance analysis



Comments

- 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
Total volume	1.7 mL
Usable volume	1.5 mL
Residual volume	4 µL



Available packs		
100/pack		17314093
10 x 100/pack		17334093
50 x 100/pack		17324093





Screw vials and associated caps Continued

(<2 mL – 2 mL vials, 9 mm caps)

2 mL Gold-grade glass screw vials

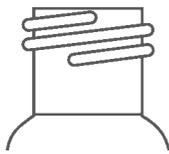
Performance Level 3 for high performance analysis



Comments

- 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	SureStop, GOLD-grade glass
	Clear glass
Total volume	2 mL
Available packs	
100/pack 	17374073
10 x 100/pack 	17394073
50 x 100/pack 	17384073





Screw vials and associated caps Continued

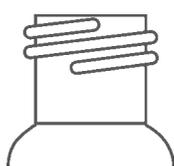
(<2 mL – 2 mL vials, 9 mm caps)

2 mL glass screw vials

Performance Level 3 for high performance analysis



Comments
<ul style="list-style-type: none"> • 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	—	Silianised	SureStop	SureStop
	Clear glass	Clear glass	Clear glass	Amber glass
Total volume	2 mL			
Usable volume	1.5 mL			
Available packs				
100/pack 	17354073	17374083	17304083	17344083
10 x 100/pack 	17334083	—	17324083	17364083
50 x 100/pack 	17364073	—	17314083	17354083



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 Continued

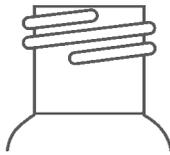
Performance Level 3 for high-throughput applications



Comments

- Short thread screw
- Specification certified

For use with <2 mL - 2 mL screw vials



Cap components	AVCS Cap					
	—	Pre-slit septa	—	Pre-slit septa	—	—
	—	—	—	Soft septa	Soft septa	
Cap color and material	Blue polypropylene	Blue polypropylene	Blue polypropylene	Blue polypropylene	Blue polypropylene	Red polypropylene
Septum color and material	Red PTFE/ white silicone/ red PTFE	White silicone/ blue PTFE	White silicone/ red PTFE	Blue silicone/ clear PTFE	Blue silicone/ clear PTFE	Red PTFE/ white silicone/ red PTFE
Septum hardness	45 shore	54 shore	54 shore	30 shore	30 shore	45 shore
Available packs						
100/pack	 17334063	17374053	17334043	17354043	17344043	17354063
10 x 100/pack	 17384063	17324063	17304053	—	—	17374063
50 x 100/pack	 17344063	17384053	17364043	—	—	17364063





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



Comments

- Short thread screw
- Specification certified

For use with <2 mL - 2 mL screw vials



	AVCS cap	AVCS cap	Bonded cap	Bonded cap	AVCS cap
Cap components	Pre-slit septa	–	Pre-slit septa	–	–
	–	–	–	–	Magnetic cap
Cap color and material	Red polypropylene	Red polypropylene	Grey polypropylene	Black polypropylene	Blue polypropylene with gold magnetic tinplate cover
Septum color and material	White silicone/blue PTFE	White silicone/red PTFE	White silicone/red PTFE	White silicone/red PTFE	White silicone/red PTFE
Septum thickness	1 mm				
Septum hardness	54 shore				
Available packs					
100/pack	17394053	17374043	17344053	17314053	17363993
10 x 100/pack	17314063	17394043	17364053	17334053	–
50 x 100/pack	17304063	17384043	17354053	17324053	–





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

Glass crimp microvials

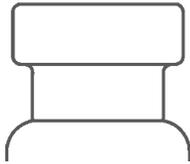
Performance Level 3 for high performance analysis



Comments

- Crimp
- 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



Vial color and material	Clear glass	Amber glass
Total volume	300 µL	
Usable volume	250 µL	
Residual volume	4 µL	



Available packs		
100/pack		17324073 17394063
10 x 100/pack		17344073 17314073
50 x 100/pack		17334073 17304073





Crimp vials and associated caps Continued

(<2 mL – 2 mL, 11 mm caps)

2 mL GOLD-grade crimp vials

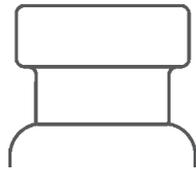
Performance Level 3 for high performance analysis



Comments

- 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 mL
Available packs	
100/pack 	17363953



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

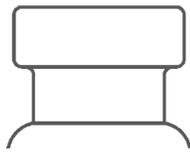
Performance Level 3 for high performance analysis



Comments

- 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 mL
Usable volume	1.5 mL
Available packs	
100/pack 	17303953
10 x 100/pack 	17323953
50 x 100/pack 	17313953



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

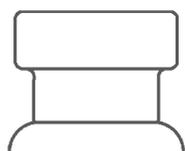


Comments

- 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	—	Soft septa	Soft septa
Septum thickness	—	—	Magnetic cap, pre-slit
Septum color and material	Red PTFE/ white silicone/red PTFE	Silver aluminium	Silver magnetic steel
Septum thickness	—	1 mm	—
Septum hardness	45 shore	30 shore	30 shore



Available packs

100/pack		17333933	17323933	17373933
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Learn more about:

- Manual crimpers and decrimpers
- Electronic crimpers and decrimpers





Snap vials and associated caps

(<2 mL – 2 mL vials, 11 mm caps)

Glass snap microvials

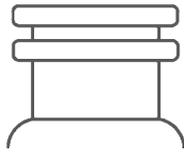
Performance Level 3 for high performance analysis



Comments

- 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	
Usable volume	250 µL	
Residual volume	4 µL	



Available packs

100/pack 	17373943	17333953
10 x 100/pack 	17393943	17353953
50 x 100/pack 	17383943	17343953





Snap vials and associated caps Continued

(<2 mL – 2 mL vials, 11 mm caps)

1.5 mL total recovery glass snap microvials

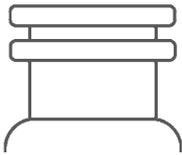
Performance Level 3 for high performance analysis



Comments

- 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
Available packs	
100/pack 	17364033
10 x 100/pack 	17384033
50 x 100/pack 	17374033





Snap vials and associated caps Continued

(<2 mL – 2 mL vials, 11 mm caps)

High recovery glass snap microvials

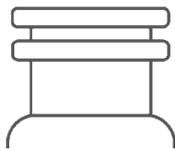
Performance Level 3 for high performance analysis



Comments

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

For use with 11 mm snap caps



Vial color and material	Silanized glass	Clear glass
Total volume	1.7 mL	1.5 mL
Usable volume	1.5 mL	1.2 mL
Residual volume	4 µL	



Available packs

100/pack 	17354033	–
10 x 100/pack 	–	–
50 x 100/pack 	–	–





Snap vials and associated caps Continued

(<2 mL – 2 mL vials, 11 mm caps)

Glass snap vials

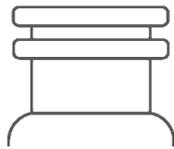
Performance Level 3 for high performance analysis



Comments

- 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 mL
Usable volume	1.5 mL
Available packs	
100/pack 	17324033
10 x 100/pack 	17344033
50 x 100/pack 	17334033



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

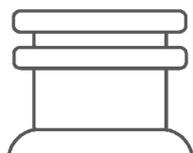
Performance Level 3 for high performance analysis



Comments

- Snap closure (11 mm)
- Specification certified

For use with <2 mL and 2 mL snap vials



Key attributes	Pre-slit	–	–	Star pre-slit	–	–	–	–
Cap color and material	Blue polyethylene	Blue polyethylene	Blue polyethylene	Clear polyethylene	Red polyethylene	Red polyethylene	Red polyethylene	Red polyethylene
Septum color and material	White silicone/blue PTFE	White silicone/red PTFE	Blue silicone/clear PTFE	White silicone/red PTFE	Red silicone/blue PTFE	White silicone/red PTFE	White silicone/red PTFE	Red silicone/clear PTFE
Septum thickness	54 shore	54 shore	45 shore	54 shore	54 shore	54 shore	54 shore	45 shore
Septum hardness	1 mm	1 mm	1 mm	1 mm	1.3 mm	1.3 mm	1.3 mm	1 mm



Available packs

100/pack		17374013	17354003	17384163	17334023	17394013	17334013	17334013	17384003
10 x 100/pack		17324023	17364013	17304173	17354023	17314023	17354013	17354013	17304013
50 x 100/pack		17384013	17324013	17394163	17344023	17304023	17344013	17344013	17394003



Inserts

(2 mL vials)

Inserts for 2 mL vials

Performance Level 3 for high-throughput applications



Comments

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

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



	GOLD-grade glass	Deactivated/silanized glass	—	—	—
Insert color and material	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	0.4 mL clear conical glass insert, with pulled point	0.5mL clear flat bottom glass insert
Total volume	200 µL	300 µL	300 µL	400 µL	500 µL
Usable volume	150 µL	250 µL	250 µL	350 µL	450 µL
Residual volume	2 µL	4 µL	4 µL	4 µL	35 µL
Height	31 mm	30 mm	30 mm	31 mm	31 mm
Inner diameter	6 mm	6 mm	6 mm	6 mm	6 mm
Base style	Conical base	Conical base	Conical base	Conical base	Flat bottom
Available packs					
100/pack	 —	17333983	17303983	17363983	—
	 17393973	17353983	17323983	17383983	—
50 x 100/pack	 —	17343983	17313983	17373983	17393983



[Learn more about:](#)

2 mL glass screw vials

2 mL glass crimp vials

2 mL glass snap vials



Headspace crimp vials and associated caps (6 mL – 20 mL vials, 20 mm caps)

6 mL, 10 mL and 20 mL glass crimp headspace vials

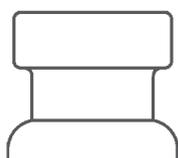
Performance Level 3 for high performance analysis



Comments

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

For use with 20 mm crimp caps



Vial color and material	Clear glass			
Total volume	6 mL	10 mL	20 mL	20 mL
Usable volume	5 mL	8 mL	18 mL	18 mL
Residual volume	–	–	–	0.8 mL
Dimensions	21.75 mm x 38 mm	22.75 mm x 46 mm	22.75 mm x 75.0 mm	22.75 mm x 75.0 mm
Rim and base style	Square rim, flat bottom	Beveled rim, flat bottom	Beveled rim, flat bottom	Beveled rim, round bottom
Available packs				
100/pack	 17333963	17343943	17373953	17303963
10 x 100/pack	 17353963	17363943	17393953	17323963
50 x 100/pack	 17343963	17353943	17383953	17313963





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

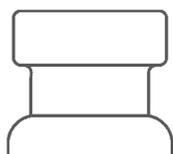


Comments

- 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



	—	Magnetic	Magnetic	Magnetic
Cap color and material	Silver aluminium	Red aluminium/ magnetic tinplate	Silver aluminium/ magnetic tinplate	Blue aluminium/ magnetic tinplate
Septum color and material	Blue silicone/ clear PTFE; soft	Blue silicone/ clear PTFE; soft	Red silicone/ natural PTFE; high Temperature	White silicone/ blue PTFE
Septum thickness	45 shore	45 shore	54 shore	54 shore
Septum hardness	3 mm	3 mm	3 mm	3 mm, 1.5 mm at thinned area
Available packs				
100/pack	17343933	17333923	17363923	17393923
10 x 100/pack	17363933	17353923	17383923	17313933
50 x 100/pack	17353933	17343923	17373923	17303933



Learn more about:

- Manual crimpers and decrimpers
- Electronic crimpers and decrimpers





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 adsorption
- 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	+	+
Glass surface with very low adsorption tendencies for all polar compounds	+	+
Closures contain very soft ultra-low bleed silicone septa with PTFE layer or bonded caps	+	+
Optimised for trace analysis	+	+



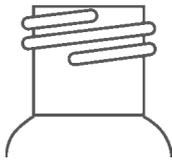
Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

Specification certified screw vial and cap kits

Performance Level 3 for high performance analysis



Comments	
<ul style="list-style-type: none"> • 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
Septa color and material	White silicone/red PTFE
Septa thickness	1 mm
Available packs	
100/pack	17363963





Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

Specification certified screw vial and cap kits Continued

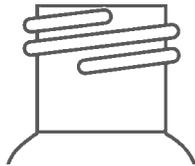
Performance Level 3 for high performance analysis



Comments

- Short thread screw kit
- 12 mm x 32 mm (diameter x 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 mL
Vial color and material	Clear glass
Cap color and material	Blue screw cap (PP)
Septa color and material	White silicone/red PTFE
Septa thickness	1 mm
Available packs	
100/pack	17393963





Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

LC/GC certified kits – 2 mL vials with 9 mm caps

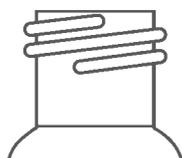
Performance Level 3 for high performance analysis



Comments

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

For use with short thread screw cap closure



	—	—	—	SureStop vials	SureStop vials	SureStop vials
Key attributes	Bonded caps	Bonded caps	AVCS caps	AVCS caps	AVCS caps	AVCS caps
	Pre-slit septa	Pre-slit septa	Pre-slit septa	Pre-slit septa	—	—
Vial total volume	2 mL					
Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass	Clear glass	Amber glass
Cap color and material	Grey screw cap (PP)	Grey screw cap (PP)	Blue screw cap (PP)	Blue screw cap (PP)	Blue screw cap (PP)	Blue screw cap (PP)
Septa color and material	White silicone/red PTFE	White silicone/red PTFE	White silicone/blue PTFE	White silicone/blue PTFE	White silicone/red PTFE	
Septa thickness	1 mm					
Available packs						
100/pack	17333943	17323943	17313943	17393933	17303943	17383933





Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

MSCERT kits

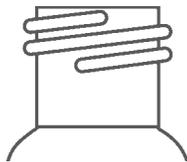
Performance Level 3 for high performance analysis



Comments

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

For use with short thread screw cap closure



Key attributes	SureStop vials				
	AVCS caps				
	—	—	Pre-slit septa	Pre-slit septa	
Vial total volume	2 mL				
Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass	
Cap color and material	Blue screw cap (PP)				
Septa color and material	Blue silicone/clear PTFE septa				
Septa thickness	1 mm				
Available packs					
100/pack		17373993	17383993	17393993	17304003





Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

MSCERT kits Continued

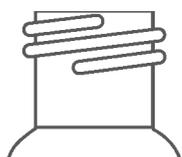
Performance Level 3 for high performance analysis



Comments

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

For use with short thread screw cap closure



Key attributes	Pre-slit septa			
	Bonded caps			
	—	—	SureStop vials	SureStop vials
Vial total volume	2 mL	—	—	—
Vial color and material	Amber glass	Amber glass	Clear glass	Amber glass
Cap color and material	Blue screw cap (PP)			
Septa color and material	White silicone/beige PTFE			
Septa thickness	1 mm			
Available packs				
100/pack	 17344003	17334003	17314003	17324003





Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

MSCERT+ kits

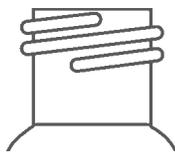
Performance Level 3 for high performance analysis



Comments

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

For use with short thread screw cap closure



Key attributes	SureStop vials			
	AVCS caps			
	—	—	Pre-slit septa	Pre-slit septa
Vial total volume	2 mL			
Vial color and material	Clear glass	Amber glass	Clear glass	Amber glass
Cap color and material	Blue screw cap			
Septa color and material	Blue silicone/clear PTFE			
Septa thickness	1 mm			
Available packs				
100/pack	17323973	17343973	17373973	17383973





Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

MSCERT+ kits Continued

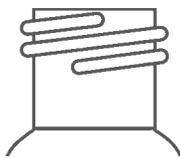
Performance Level 3 for high performance analysis



Comments

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

For use with short thread screw cap closure



Key attributes	SureStop vials		Fused-insert	
		Bonded		Pre-slit septa
Vial total volume	2 mL	2 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
Septa color and material	Clear silicone/clear PTFE			
Septa thickness	1 mm			
Available packs				
100/pack	17313973	17333973	17303973	17353973





Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

MSCERT+ kits Continued

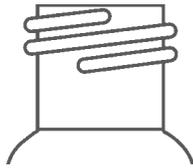
Performance Level 3 for high performance analysis



Comments

- High recovery vial
- Short thread screw vial
- 12 mm x 32 mm (diameter x height) flat bottom base
- MSCERT+ certified

For use with short thread screw cap closure



Key attributes	Total recovery
	Bonded
	Pre-slit
Vial total volume	1.5 mL
Vial color and material	Clear glass
Cap color and material	Grey screw cap
Septa color and material	Clear silicone/clear PTFE
Septa thickness	1 mm
Available packs	
100/pack	17363973





Specification certified, LC/GC certified, MSCERT and MSCERT+ kits Continued

TOC certified screw vial and cap kits

Performance Level 3 for high performance analysis



Comments

- 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.



Vial description	40 mL (24 mm) screw glass vial	
Vial color and material	Clear	
Cap description	Bonded white screw cap (24-400) (PP)	
Septum color and material	White silicone/clear PTFE open top	
Septum thickness	3 mm	
Septum hardness	50 shore	
Certification level	TOC certification (20 ppb)	TOC certification (10 ppb)
Available packs		
72/pack 	17383963	17373963



SureSTART vials and caps accessories



Manual crimpers and decrimpers

Manual crimpers and decrimpers

Achieve secure, repeatable crimps or remove seals with minimized risk of damage



Use Thermo Scientific™ SureSTART™ vial crimpers and decrimpers to manually attach or remove crimp caps from vials, respectively. These manual crimpers and decrimpers are available in 8 mm, 11 mm, 13 mm, and 20 mm sizes and allow you to easily seal or remove crimp caps reliably.



Product description	Red manual crimper	Red manual crimper	Red manual crimper	Red manual crimper	Stainless steel manual crimper
Suitable for	8 mm crimp caps	11 mm crimp caps	13 mm crimp caps	20 mm crimp caps	20 mm crimp caps
Available packs					
1/pack 	17354163	17314163	17324163	17334163	17344163



Product description	—	Black manual decrimper	Black manual decrimper	—	Black manual decrimper
Suitable for	—	11 mm crimp caps	13 mm crimp caps	—	20 mm crimp caps
Available packs					
1/pack 	—	17374163	17364163	—	17383763



Electronic crimpers and decrimping tools

Electronic crimpers and decrimpers

Our electronic Thermo Scientific 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 aluminium, 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 the highest crimping force independent from battery charge status.



Versatile and programmable crimp station

Electronic crimpers and decrimpers features and benefits

- Tools available for use with 8 mm, 11 mm, 13mm, 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 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—EN, CN, JA, DE, FR, ES, IT, KO
- 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. (ECRH-STAND)
- Each High-Power Crimper comes with 12-volt DC supply with power cord
- Crimp and Decrimp Heads for the High-Power Crimper are included in the kits or available separately



Electronic crimpers and decrimping tools

Continued

Electronic hand-held battery-operated crimper (black)

Generation 4



Product description	Electronic hand-held battery-operated crimper (black). Generation 4			
Suitable for	8 mm crimp caps	11 mm crimp caps	13 mm crimp caps	20 mm crimp caps
Available packs				
1/pack	16339236	16397906	16329236	16389735

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
Available packs				
1/pack	—	16307916	16376218	16398145

Electronic crimper for FTFO and Flip-Off crimper



Product description	13 mm electronic crimper for FTFO	20 mm electronic Flip-Off crimper
Available packs		
1/pack	16326218	16450955



Electronic crimpers and decrimping tools

Continued

Electronic high-power programmable crimp station



Product description	Electronic high-power crimp station (without crimp heads) (black). Generation 2		
Available packs			
1/pack		16366218	

Electronic high-power programmable crimper kits



Product description	Electronic high-power programmable crimper kit		
Suitable for	11 mm	13 mm	20 mm
Include	11 mm crimp head 11 mm decrimp head	13 mm crimp head 13 mm decrimp head	20 mm crimp head 20 mm decrimp head
Available packs			
1/pack	16336218	16346218	16356218





Electronic crimpers and decrimping tools

Continued

Accessories for electronic high-power programmable crimper



Product description	Accessory base for electronic crimpers: Height adjustable and solvent resistant (consists of base plate and bar)			
Available packs				
1/pack		15237318		



Product description	8 mm crimp head	11 mm crimp head	13 mm crimp head	20 mm crimp head	
Available packs					
1/pack		15207318	15257308	15267308	15287308



	13 mm Flip-Off crimp head	20 mm Flip-Off crimp head	
Available packs			
1/pack		15277308	15297308



Accessories for electronic high-power programmable decrimper

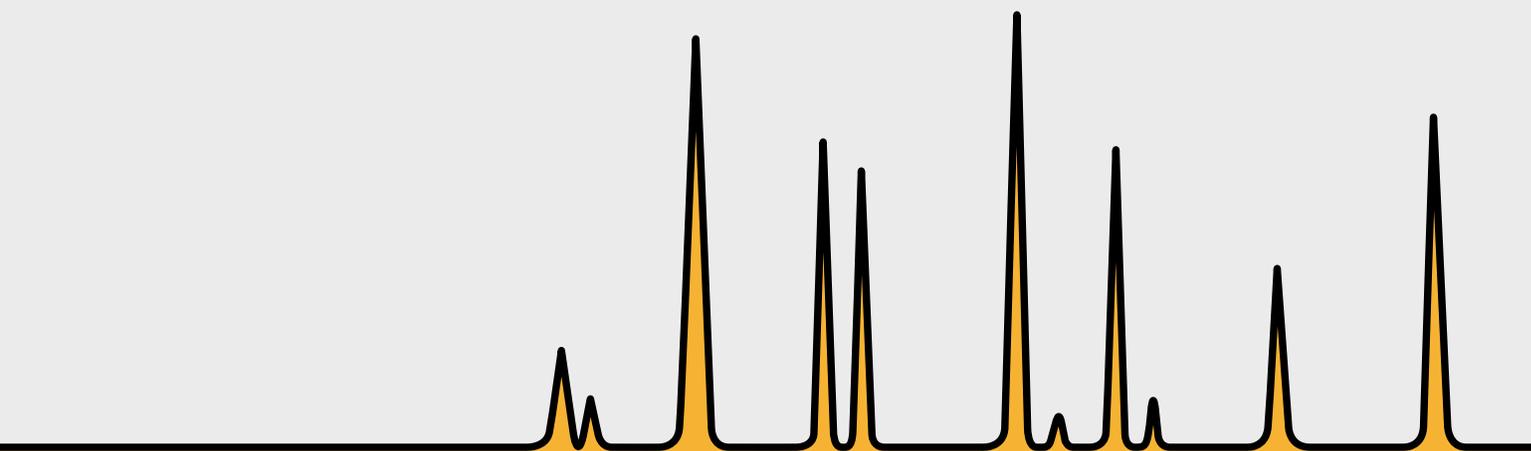
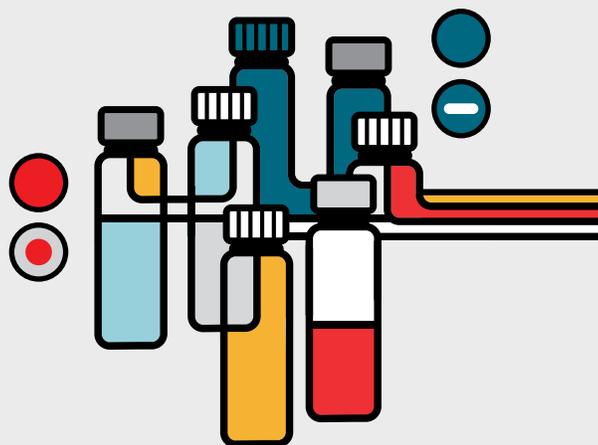


Product description	11 mm decrimp head	13 mm decrimp head	20 mm decrimp head	
Available packs				
1/pack		15227308	15237308	15247308





Exchangeable jaw sets for crimping or decrimping of aluminum and stainless steel seals on various diameter vials



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 for complex and routine analyses in high-throughput screening laboratories.

We offer a broad selection of polypropylene (PP) well plates that meet ANSI and SBS standards with different sealing options and fit most manifolds, autosamplers, and robots.



Handle more samples in less time

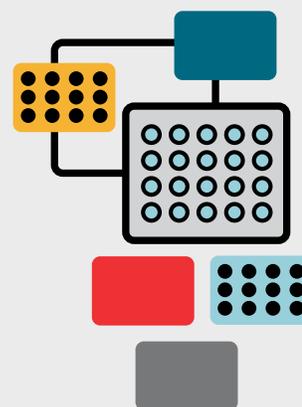
- Low volume and high recovery cavity

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



Comments

- Thermo Scientific™ WebSeal™ well plates are manufactured from a GC/MS tested polypropylene material
- Microplates are chemically and thermally resistant and will tolerate temperatures from -80°C to $+121^{\circ}\text{C}$
- 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 $\mu\text{L}/\text{well}$	Cat. no.	Pack size
96 well microplate, round well	14.4	V-Shape, 8 mm diameter	450	10-400	15102699	20
					15112699	120
96 well plates, round well	26.5	U-shape, 8 mm diameter, mid height plate	1100	50-900	15836261	50
	31.6				15142699	5
					15152699	50
	45.0				U-shape, 8 mm diameter, deep-well plate	2000
96 deep well plate, square well	31.0	U-shape, square, mid height plate	1600	50-1300	15846261	96
		V-Shape, square, deep-well plate			15182699	5
	44.0	15192699	50			
384 well microplate	15.5	V-Shape, square, micro titer plate	145	4-120	15162709	10
	22.0	V-shape, square, mid-height plate	252	5-240	15884304	100
		V-shape, square, mid-height plate			15122709	5
	22.0	V-shape, square, mid-height plate			15851435	100



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



Comments

- 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



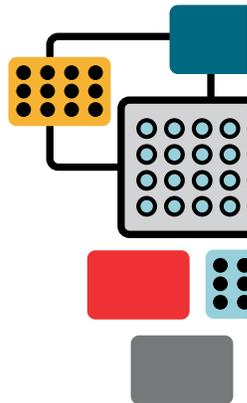


Well plates and mats Continued

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	Cat. no.	Pack size
WebSeal mats CLR silicone mat, round well		Silicone	96 round well, 8 mm diameter, flat base with cross		15896251	50
WebSeal mats alcohol resistant), round well	Clear	EVA	96 round well, 8 mm diameter	No	15192709	5
					17443193	50
WebSeal CLR silicone mat, round well		Silicone			17433193	
			96 round well – flat base, 8 mm diameter, large penetration area	Yes	16231362	
WebSeal mats (solvent resistant), round well	Blue	Silicone/PTFE		No	15102719	5
				Yes	15112719	
WebSeal mats (alcohol resistant), square well		EVA	96 square well - flat base	No	17453193	
					17463193	50
					15182739	
					15172739	5
WebSeal CLR silicone mat, square well	Clear	Silicone	96 square well – flat base, 8 mm diameter, flat base with cross	No	15806261	50
					15192739	
					15102749	5
					15816261	50
			384 square well	Yes	15102749	
			384 square well, flat base with cross		15816261	50
Sealing tape, -40°C - 90°C		PE/silicone		No	15122719	
Sealing tape, -70°C - 100°C		PES/silicone			15132719	
Sealing tape, -80°C - 120°C	Silver	Aluminum/silicone		N/A	15142719	100
Sealing tape with SRA (synthetic rubber adhesive)		Polyolefin/rubber	N/A	No	15152719	
Re-sealing tape with 3 layer no adhesive at cavity area	Clear	PET/silicone/PET		Yes	15162719	
					15888611	25
Hand held sealing tape applicator	Gold	N/A		N/A	15172719	2
Hand held mat applicator	Black				15182719	1

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



Comments

- Polypropylene microplates are manufactured from ultra low bleed high purity basis resin
- Plates are fully LOT 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

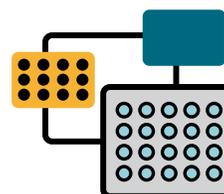
60180-P201



60180-P202



60180-P204





Well plates and mats Continued

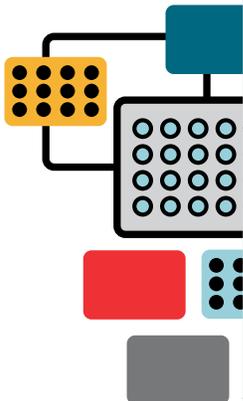
Performance Level 2 for high-throughput applications

WebSeal well plates Continued

Plastic, non-coated, non-sterile, certified



Description	Total height	Well format	Total volume (µL)	Working volume range µL/well	Cat. no.	Pack size
96 well microplate, low volume	15.0	Total V-shape, 5.6 mm diameter	100	5-80	15886261	50
		Flat bottom, 7 mm diameter	350	10-300	15192719	100
96 well microplate, round well	14.7	U-shape, 7 mm diameter	270	10-250	15112729	100
					15122729	10
		V-shape, 7 mm diameter	220	10-190	15132729	100
					15142729	10
96 well mid height plates, round well	41.6	U-shape, 7 mm diameter	1200	50-1100	15152729	50
	41.6				15162729	5
96 deep well plate, square well	44.4	V-shape, 8 mm diameter	2000	50-1900	15172729	50
					15182729	5
384 well microplate	14.4	U-shape, square, micro titer plate	58	2-35	15192729	60
					15102739	10
	30.2	V-shape, square, deep well plate	300	5-240	15112739	48
					15122739	6





Well plates and mats Continued

Performance Level 2 for high-throughput applications

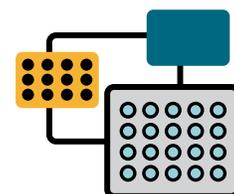
WebSeal mats, non-sterile

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



Comments

- 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



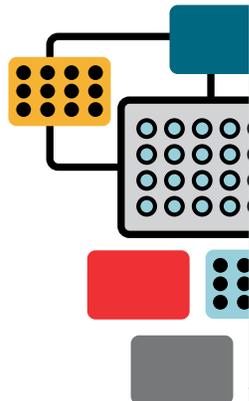


Well plates and mats Continued

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 plates



Description	Color	Material	Well design	Pre-slit	Cat. no.	Pack size
WebSeal mats (alcohol resistant), round well		EVA	96 round well, 7 mm diameter		17473193	100
WebSeal CLR silicone mat, round well			96 round well – flat base, 5.6 mm diameter, cross	No	15826261	50
			96 round well – flat base, 7 mm diameter, large penetration area		15332165	
			96 round well – 7 mm diameter, step, small penetration area	Yes	15152739	5
					15162739	
WebSeal CLR silicone mat, square well	Clear	Silicone	96 square well – flat base, 8 mm diameter, flat base with cross	No	15806261	50
			96 square well – flat base, 8 mm diameter, large penetration area		15182739	
				Yes	15172739	5
			384 square well for 384 well plates	No	15192739	
				Yes	15102749	
WebSeal mat (solvent resistant), round well			96 round well – flat base, step, 7 mm diameter	No	15122749	
				Yes	15132749	
WebSeal mat, (solvent resistant), square well	Blue	Silicone/PTFE	96 square well – flat base, 8 mm diameter, large penetration area	No	15152749	
				Yes	15162749	5
			384 square well for 384 well plates	No	15172749	
				Yes	15182749	
WebSeal mat for Plate+			96 round well – dome base, 7.2 mm diameter	No	15112749	
				Yes	15142749	

WebSeal Performance Level 3 products



Well plates and mats

Performance Level 3 for high performance analysis

WebSeal Plate+ Glass coated microplates



Comments

- High quality polypropylene microplates coated with 200nm thick layer of silicon dioxide
- Plate+ provides microplates with a chemical resistance similar to glass while retaining the advantages of polypropylene
- 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



Description	Total height	Well format	Total volume (µL)	Working volume (µL)	Cat. no.	Pack size
96 well microplate, round well	14.6	U-shape, 7.2 mm diameter	300	250	—	10
		V-shape, 7.2 mm diameter	220	190	—	
		Flat bottom, 7.2 mm diameter	370	300	—	
96 well mid height plate, round well	41.5	U-shape, 7.2 mm diameter	1.2 mL	1.0 mL	—	
96 deep well plate, square well	44.0	V-shape, 8 mm diameter	2.4 mL	2.0 mL	—	
384 well microplate	14.4	Square-rounded, flat, micro titer plate	120	90	—	
	22.0	Square-rounded, U-shape, deep well plate	240	180	—	6



Well plates and mats Continued

Performance Level 3 for high performance analysis

WebSeal glass inserted plate kits

With 96-position mats



Comments

- Convenient wellplate kits with pre-assembled glass vials
- Replacement parts for kits available separatel
- 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

15132769



15142769



15162769



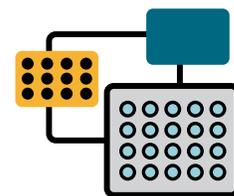
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15182769



15192769





Well plates and mats Continued

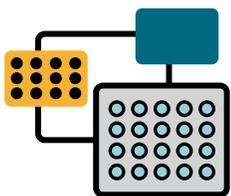
Performance Level 3 for high performance analysis

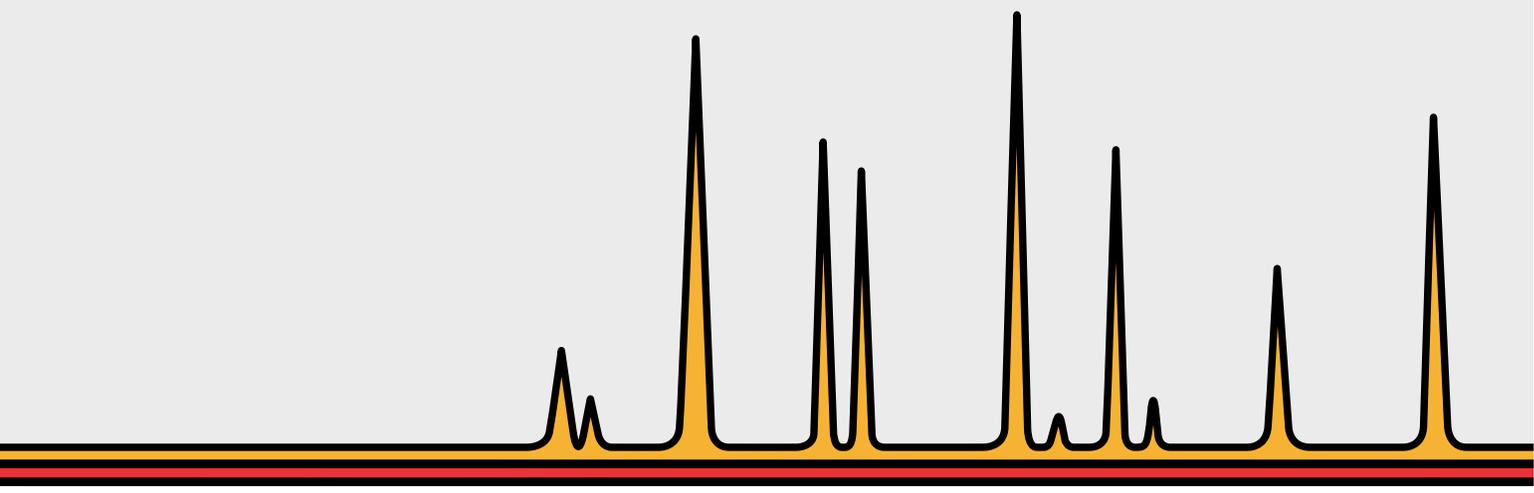
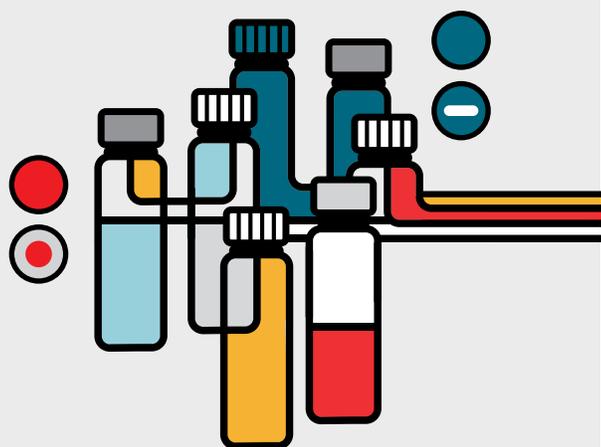
WebSeal glass inserted plate kits Continued

With 96-position mats



Kit type	Vial material	Total volume (µL)	Vial dimension (mm)	Profile	Mat material	Total height (mm)	Vial cat. no.	Mat cat. no.	Kit cat. no.	Pack size
96 well small volume microplate with sealing mat	Clear glass	500	6.5 x 31	Taper	Silicone/PTFE	32.0	15122779	15192779	15132769	5
96 deep well plate with sealing mat	Clear glass	1100	7.45 x 38.5	Round	Silicone/PTFE	41.5	15152779	15112789	15152779	5
96 square well plate with sealing mat	Clear glass	1000	7.6 x 45	Constricted	Precut	47.3	—	15122749	15192769	1





WebSeal kit accessories



WebSeal kit accessories

WebSeal 96 well mats Silicone/PTFE



60180-M151



60180-M154



Kit type	Details	Pre-slit	Cat. no.	Pack size
96 well WebSeal mat	60180-K100, 60180-K101, 60180-K103	No	15192779	
		Yes	15102789	
96 well WebSeal mat	60180-K104, 60180-K106	No	15112789	5
		Yes	15122789	
96 well WebSeal mat, welled plugs	60180-K107	No	15122749	
	60180-K108	Yes	15132749	
WebSeal cutter for vial removal	—	—	—	1



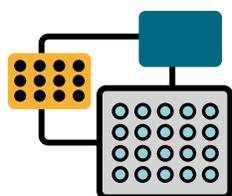
WebSeal kit accessories

Continued

Plate vials For 96 wells



Kit type	Vial material	Total volume (µL)	Vial dimension (mm)	Profile	Cat. no.	Pack size
Micro titer plate vial for 96 wells	Clear glass	500	6.5 x 31	Taper	15122779	500
		700	6.5 x 41.4		15132779	
		1100	7.45 x 38.5		15152779	
Deep well plate vial for 96 wells	Clear glass	1500	7.25 x 60.5	Round	15172779	





WebSeal kit accessories

Continued

Well plates and racks

PP



60180-P400



60180-P401



Kit type	Vial material	Total volume (µL)	Profile	Total height (mm)	Cat. no.	Pack of
Plastic 96 round well micro titer plate (60180-K100)	—	800	V-shape, 7 mm diameter	31.5	15162789	5
PP 96 round well micro rack (60180-K101, K102)	PP	—	U-shape, 7 mm diameter	41.6	15162729	
PP 96 well square well plate (60180-K107/108/109)	PP	2000	U-shape, square	44.0	15192789	1
PP 96 well square well plate (60180-K106)	PP	2000	V-shape, square		15182729	5



WebSeal kit accessories

Continued

Plate vials and accessories

For 96 wells



Kit type	Vial material	Total volume (µL)	Vial dimension (mm)	Profile	Septum	Cat. no.	Pack of
Micro titer plate vial for 96 wells	Clear glass	100	5.7 x 15.5	Flat bottom	—	15152799	960
Deep well plate vial for 96 wells		350	6 x 42.5	Taper	—	15162799	
Square well vial for 96 Wells		1000	7.6 x 45.9	Round	—	15172799	
MTRS vial for 96 wells		800	7.6 x40		—	15182799	
PE cap, red, center hole for 96 Well Plate Inserts	—	—	—	—	Silicone/PTFE, pre-slit, 45°	15192799	96
8mm PE plug, blue, for 60180-K204	—	—	—	—	PE plug	15102809	
DW-block, PP, 96 positions	—	1200	—	U-shape	—	15122809	
Micro-tube-rack-system, PP, 96 positions	—	—	—	—	—	15142809	



WebSeal kit accessories

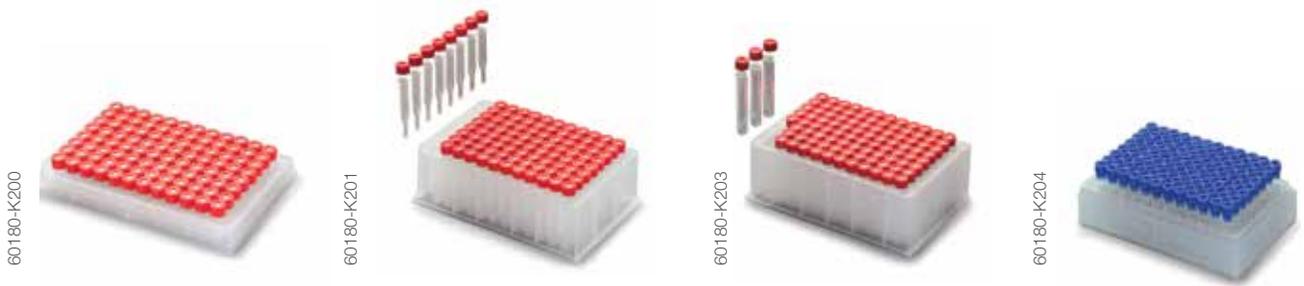
Continued

WebSeal clear glass inserted plate kits

With individual closures

Comments

- 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 or amber, Type 1 Class B borosilicate 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	Vial cat. no.	Cap cat. no.	Kit cat. no.	Pack size
96 well microplate	100	5.7 x 15.5	Flat bottom	Silicone/PTFE, pre-slit, 45°	15152799		15102799	
96 deep well Plate	350	6 x 42.5	Taper		15162799	15192799	15112799	
96 square well plate	1000	7.6 x 45.9	Round	Silicone/PTFE, 45°	15172799		15122799	1
				Silicone/PTFE, pre-slit, 45°			15132799	
96 micro-tube-rack-system	800	7.6 x 40		PE plug	15182799	15102809	15142799	



WebSeal kit accessories

Continued

Barcoded well plates For Thermo Scientific™ Vanquish™ Systems

Comments

- 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

60180-P206-216B

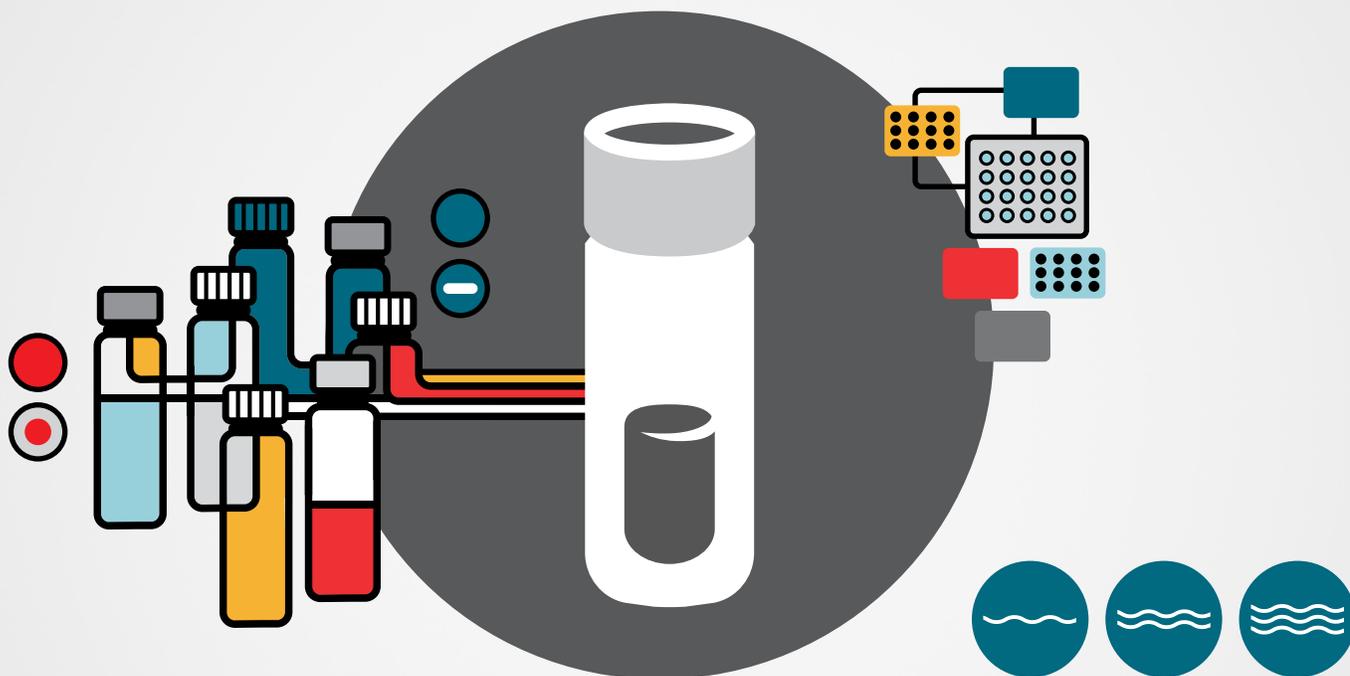


60180-P207-217B



Description	Total height	Well format	Total volume $\mu\text{L}/\text{well}$	Working volume range $\mu\text{L}/\text{well}$	Cat. no.	Pack size
96 well microplate, round well, barcoded	14.7	U-shape, 7 mm diameter	270	10-250	16592050	100
					16383757	10
	14.7	V-shape, 7 mm diameter	220	10-190	15866261	100
					15806271	10
96 well mid height plate, round well, barcoded	31.6	U-shape, 8 mm diameter	1300	50-1000	16552050	5
					16572050	50
	41.6	U-shape, 7 mm diameter	1000	50-900	15856261	50
					15896261	50
96 deep well plate, square well, barcoded	44.0	V-shape, square	2000	50-1900	16562050	5
					16419405	50

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



Expect reproducible results with sample prep, columns and vials



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