

SureSTART collection

Three performance levels: Greater choice for what matters most

We are committed to provide a broad selection of solutions for all your chromatography and sample storage requirements. Our Thermo Scientific™ SureSTART™ vials caps, inserts and autosampler well plates and mats consistently come with the lowest levels of extractables and leachables, are made from glass that has the lowest compound adsorption, and the highest level of standards

and certification available in the marketplace to provide you with highly reproducible data. Whether you have routine samples, or you need to ensure the highest level of confidence and compliance, our market leading portfolio of storage and autosampler vials and well plates and sample handling accessories has everything you'll need.



Performance level 1: Everyday analysis

Chromatography approved

Meet your chromatographic needs

Choose the right vial for your chromatographic analyses. Our SureSTART Performance level 1 provides cost optimized products suitable for all GC and HPLC/UHPLC instrument types, and are quality tested to deliver the performance, sample security, reproducibility you need for analyses. Achieve your results with our accessible range of vials and caps.

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.



Product type	Product description	100/Pack	10 x 100/Pack	50 x 100/Pack
Screw vials	2 mL clear screw glass vial (9 mm short thread) with write-on patch	CHSV9-10P	CHSV9-10PT	CHSV9-10PF
	2 mL amber screw glass vial (9 mm short thread) with write-on patch	CHSV9-20P	CHSV9-20PT	CHSV9-20PF
	1.5 mL clear screw *PP vial (9 mm short thread)	6ESV9-1PP	6ESV9-1PPT	6ESV9-1PPF
	0.4 mL clear screw PP vial with fixed conical insert (9 mm short thread)	6ESV9-04PP	6ESV9-04PPT	6ESV9-04PPF
Screw caps	Blue screw cap (9 mm) (PP: white silicone/red **PTFE septa: 1.0 mm thickness) with ***Thermo Scientific™ AVCS™ technology	CHSC9-30	CHSC9-30T	CHSC9-30F
	Bonded blue screw cap (9 mm) (PP: white silicone/white PTFE septa: 1.0 mm thickness)—pre-slit	CHSC9-35UBS	CHSC9-35UBST	CHSC9-35UBSF
Crimp vial	2 mL clear crimp glass vial (11 mm thread: wide opening) with write-on patch	CHCV11-10P	CHCV11-10PT	CHCV11-10PF
	2 mL amber crimp glass vial (11 mm thread: wide opening) with write-on patch	CHCV11-20P	CHCV11-20PT	CHCV11-20PF
Crimp cap	Silver crimp cap (11 mm) (Aluminum: natural rubber/clear ****TEF septa, 60 Shore: 1.0 mm thickness)	CHCC11-10	CHCC11-10T	CHCC11-10F
	Silver crimp cap (11 mm) (Aluminum with white silicone/red PTFE septa, 45 Shore: 1.3 mm thickness)	CHCC11-30	CHCC11-30T	CHCC11-30F

*PP: polypropylene

**PTFE: polytetrafluoroethylene

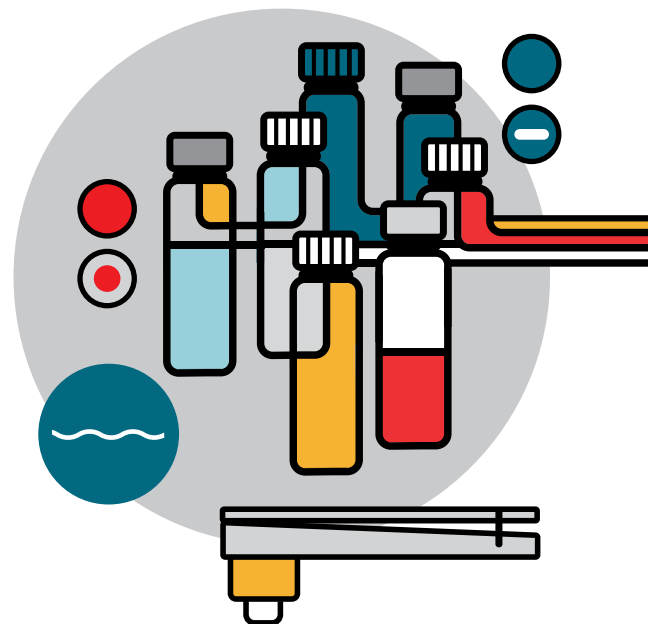
***AVCS: advanced vial closure system

****TEF: Teflon



Find out more at:

- Thermo Scientific SureSTART products—Power to extend your consumables budget





Performance level 2: High-throughput analysis

When robustness and reproducibility are key

Ensure compliance for your high-throughput samples in regulated environments

Get the performance you need for high throughput analysis to deliver high quality GC and HPLC/UHPLC data with an uninterrupted workflow. Our Performance level 2 range has very low metal content and extractables and leachables, so that you have the assurance that each product conforms to the same high levels of standards that you are working with to meet to your regulatory requirements.

If you need products that support routine analyses, using technologies such as single or triple quadrupole MS systems, our Performance level 2 products are here for you—select the products with the two waves.



Product type	Product description	100/Pack	10 x 100/Pack	50 x 100/Pack
Screw kits	2 mL clear screw glass vial (9 mm short thread) with write-on patch Blue screw cap (9 mm) (PP: white silicone/red PTFE septa: 1 mm thickness) with AVCS technology	6AK92W	—	—
	2 mL amber screw glass vial (9 mm short thread) with write-on patch Blue screw cap (9 mm) (PP: white silicone/red PTFE septa: 1 mm thickness) with AVCS technology	6AK94W	—	—
Screw vials	2 mL clear screw glass vial (9 mm short thread) with write-on patch	6ASV9-1P	6ASV9-1PT	6ASV9-1PF
	2 mL amber screw glass vial (9 mm short thread) with write-on patch	6ASV9-2P	6ASV9-2PT	6ASV9-2PF
	2 mL amber screw silanized glass vial (9 mm short thread) with write-on patch	6ASV9-S2P	6ASV9-S2PT	6ASV9-S2PF
	1.7 mL clear screw glass vial (9 mm short thread), (inner V-bottom) with write-on patch	6ASV9-V1	6ASV9-V1T	6ASV9-V1F
Screw caps	Red screw cap (9 mm) (PP: white silicone/red PTFE septa: 1.0 mm thickness) with AVCS technology	6ASC9ST1R	6ASC9ST1RT	6ASC9ST1RF
	Blue screw cap (9 mm) (PP: white silicone/red PTFE septa: 1.0 mm thickness) with AVCS technology	6ASC9ST1	6ASC9ST1T	6ASC9ST1F
	Blue screw cap (9 mm) (PP: red silicone/ivory PTFE septa: 1.0 mm thickness) with AVCS technology	6ASC9RT1	6ASC9RT1T	6ASC9RT1F
	Bonded blue screw cap (9 mm) (PP: white silicone/beige PTFE septa: 1.0 mm thickness)—pre-slit	6ASC9STBS1	6ASC9STBS1T	6ASC9STBS1F
Snap vials	2 mL clear snap glass vial (11 mm thread: wide opening) with write-on patch	6ARV11-1P	6ARV11-1PT	6ARV11-1PF
	2 mL amber snap glass vial (11 mm thread: wide opening) with write-on patch	6ARV11-2P	6ARV11-2PT	6ARV11-2PF
Snap caps	Red snap cap (11 mm) (****PE: white silicone/red PTFE septa: 1.0 mm thickness)	6ARC11ST1R	6ARC11ST1RT	6ARC11ST1RF
	Blue snap cap (11 mm) (PE: white silicone/red PTFE septa: 1.0 mm thickness)	6ARC11ST1	6ARC11ST1T	6ARC11ST1F

****PE: polyethylene



Learn more about how we ensure quality and performance of our products:

- Thermo Scientific SureSTART products— Assured quality and performance



Performance level 3: High performance

When sensitivity is a must

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

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

If you are looking for the ultimate performance from your methods for your challenging analytes, and are using accurate MS technologies, such as a high-resolution/accurate-mass (HRAM) Thermo Scientific™ Orbitrap™ mass spectrometer, and want to maintain the highest levels of sample security and integrity, our Performance level 3 products will meet your needs—select the products with the three waves.



Product type	Product description	100/Pack	10 × 100/Pack	50 × 100/Pack
Kits	LC/GC certified kit: 2 mL clear screw glass vial (9 mm short thread) with Thermo Scientific™ SureStop™ technology and write-on patch	6PCK578W	—	—
	Blue screw cap (9 mm) (PP: white silicone/red PTFE septa: 1 mm thickness) with AVCS technology			
	LC/GC certified kit: 2 mL amber screw glass vial (9 mm short thread) with SureStop technology and write-on patch	6PCK576W	—	—
	Blue screw cap (9 mm) (PP: white silicone/blue PTFE septa: 1 mm thickness)—pre-slit, with AVCS technology			
	MSCERT: 2 mL clear screw glass vial (9 mm short thread) with SureStop technology and patch	6PMSCK534W	—	—
	Blue screw cap (9 mm) (PP: blue silicone/clear PTFE septa: 1 mm thickness) with AVCS technology			
	MSCERT: 2 mL amber screw glass vial (9 mm short thread) with SureStop technology and write-on patch	6PMSCK535W	—	—
	Blue screw cap (9 mm) (PP: blue silicone/clear PTFE septa: 1 mm thickness) with AVCS technology			
	MSCERT+ kit: 2 mL clear screw glass vial (9 mm short thread) with SureStop technology and write-on patch	6PMCK40W	—	—
	Blue screw cap (9 mm) (PP: blue silicone/clear PTFE septa: 1 mm thickness)—pre-slit, with AVCS technology			
MSCERT+ kit: 2 mL amber screw glass vial (9 mm short thread) with SureStop technology and write-on patch	6PMCK41W	—	—	
Blue screw cap (9 mm) (PP: blue silicone/clear PTFE septa: 1 mm thickness)—pre-slit, with AVCS technology				



Find out more at:

- Thermo Scientific SureSTART products—Sample security and low compound adsorption
- Thermo Scientific SureSTART products—Innovation



Did you know...

We have two MSCERT kits that are tested and certified using LC-MS and GC-MS?

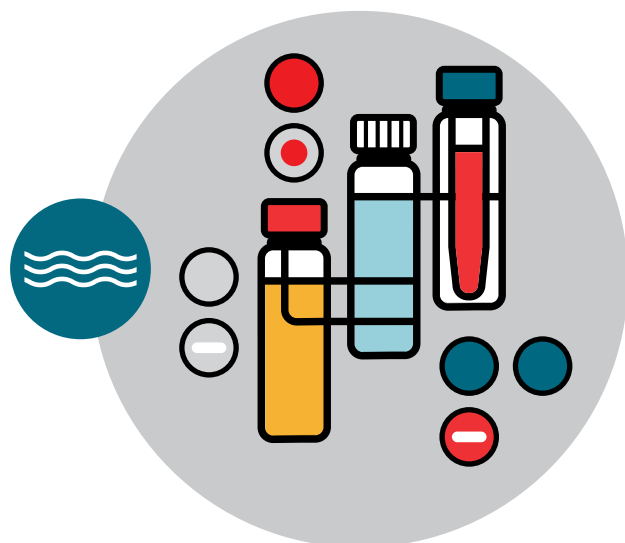
Our MSCERT+ has an pre-clean step to provide the lowest ion content and particulate levels in the vial to protect sample integrity. Highly recommended for direct injection analysis (DIA).



Performance level 3: High performance

Continued

				
Product type	Product description	100/Pack	10 x 100/Pack	50 x 100/Pack
Screw vials	2 mL clear screw glass vial (9 mm short thread) with SureStop technology and write-on patch	6PSV9-1PSS	6PSV9-1PSST	6PSV9-1PSSF
	2 mL amber screw glass vial (9 mm short thread), with SureStop technology and write-on patch	6PSV9-2PSS	6PSV9-2PSST	6PSV9-2PSSF
	2 mL clear screw glass vial (9 mm short thread) with SureStop technology and GOLD-grade glass, and write-on patch	6PSV9-1PG	6PSV9-1PGT	6PSV9-1PGF
	1.7 mL clear screw glass vial (9 mm short thread), High Recovery (V-bottom) with write-on patch	6PSV9-V1	6PSV9-V1T	6PSV9-V1F
	0.3 mL clear screw glass vial with fixed insert (9 mm short thread), with write-on patch	6PSV9-03FVP	6PSV9-03FVPT	6PSV9-03FVPF
	0.3 mL amber screw glass vial with fixed insert (9 mm short thread), with write-on patch	6PSV9-03FVAP	6PSV9-03FIVAPT	6PSV9-03FIVAPF
Screw caps	Red screw cap (9 mm) (PP: white silicone/red PTFE septa: 1.0 mm thickness) with AVCS technology	6PSC9ST1R	6PSC9ST1RT	6PSC9ST1RF
	Blue screw cap (9 mm) (PP: red PTFE/white silicone/red PTFE septa, 1.0 mm thickness) with AVCS technology	6PSC9TST	6PSC9TSTT	6PSC9TSTF
	Blue screw cap (9 mm) (PP: blue silicone/clear PTFE soft septa: 1.0 mm thickness)—pre-slit, with AVCS technology	6PSC9ST101X	6PSC9ST101XT	6PSC9ST101XF
	Blue screw cap (9 mm) (PP: blue silicone/clear PTFE soft septa: 1.0 mm thickness) with AVCS technology	6PSC9ST101	6PSC9ST101T	6PSC9ST101F
	Blue screw cap (9 mm) (PP: blue silicone/clear PTFE soft septa: 1.0 mm thickness) with AVCS technology	6PSC9STS1	6PSC9STS1T	6PSC9STS1F
	Bonded grey screw cap (9 mm) (PP: white silicone/red PTFE septa: 1.0 mm thickness)—pre-slit	6PSC9STBS1	6PSC9STBS1T	6PSC9STBS1F
Inserts	0.3 mL clear conical glass insert , with PE Thermo Scientific™ Polyspring™ insert	6PME03C1SP	6PME03C1SPT	6PME03C1SPF
	0.2 mL clear conical glass insert , with GOLD-grade glass	6PME02CG	6PME02CGT	6PME02CGF
	0.2 mL clear conical glass insert , with PE Polyspring insert (deactivated/silanized glass)	6PME03C1SSP	6PME03C1SSPT	6PME03C1SSPF



Choosing the right vials, inserts well plates and septa

There are several factors to consider when choosing a vial or well plate for your application: the instrument, the sample and the compounds. The section will help guide you through this process to determine which combination is most suitable for your application requirements.

Vials and inserts decision tree

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 (self-aligning) Pulled (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	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

Septa decision tree

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

Well plates decision tree

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



Find out more at:

- Thermo Scientific SureSTART products—
Sample security and low compound adsorption

Learn more at thermofisher.com/surestart

thermo scientific