



# TRACE 1300 Series Gas Chromatograph Consumables

Proven consumables for optimum  
system performance

# TRACE 1300 series gas chromatograph

Increasing productivity is the primary challenge for laboratories using automated analytical equipment. Improvements in these areas are directly connected with the simplification of analytical workflow, optimization of technical resources and waste reduction.

The Thermo Scientific™ TRACE™ 1300 Series Gas Chromatograph is the latest technology to simplify workflow and increase analytical performance in QA/QC and routine laboratories.

Developed around key innovations driven by customer needs, TRACE 1300 Series GC delivers:

- The capability to quickly tailor to specific user requirements
- Easy adoption of standard GC methods
- Unmatched detector sensitivity in trace analysis
- Increased robustness of injector technology
- Shorter sample cycle time



# TRACE 1300 Series GC is a fast, easy to use and versatile GC system

The TRACE 1300 Series GC is a fast, easy to use and versatile GC system which delivers extremely high levels of laboratory productivity. Combined with the Thermo Scientific™ Dionex™ Chromeleon™ Data System, it offers a powerful tool to streamline the path from samples to results, offering enhanced operational simplicity.

Changing the configuration of the TRACE 1300 Series GC is quick and easy too. Just remove the fixing screws and connect the new injector or detector modules.

Thermo Scientific Instant Connect (IC) modules mean you don't need special training, dedicated tools or

on-site service engineers to tailor a GC configuration to a specific workload or to run a particular method. This unique modular design offers the following advantages to the operator:



- Exceptional throughput – easily increase from single to multiple channels to satisfy rapid incremental business needs and reduce sample cycle time
- Routine maintenance in minutes – replace contaminated injector/detector bodies easily and start running samples quickly

## TRACE 1300 Series GC is available in two models

The TRACE 1300 Series GC is ideal for basic routine laboratory work, when operator expertise requires ease of use with minimal instrument interaction. Larger routine QA/QC laboratories will benefit from the TRACE 1310 Series GC as it features a touch screen interface which is ideal for direct instrument control when method development is required.



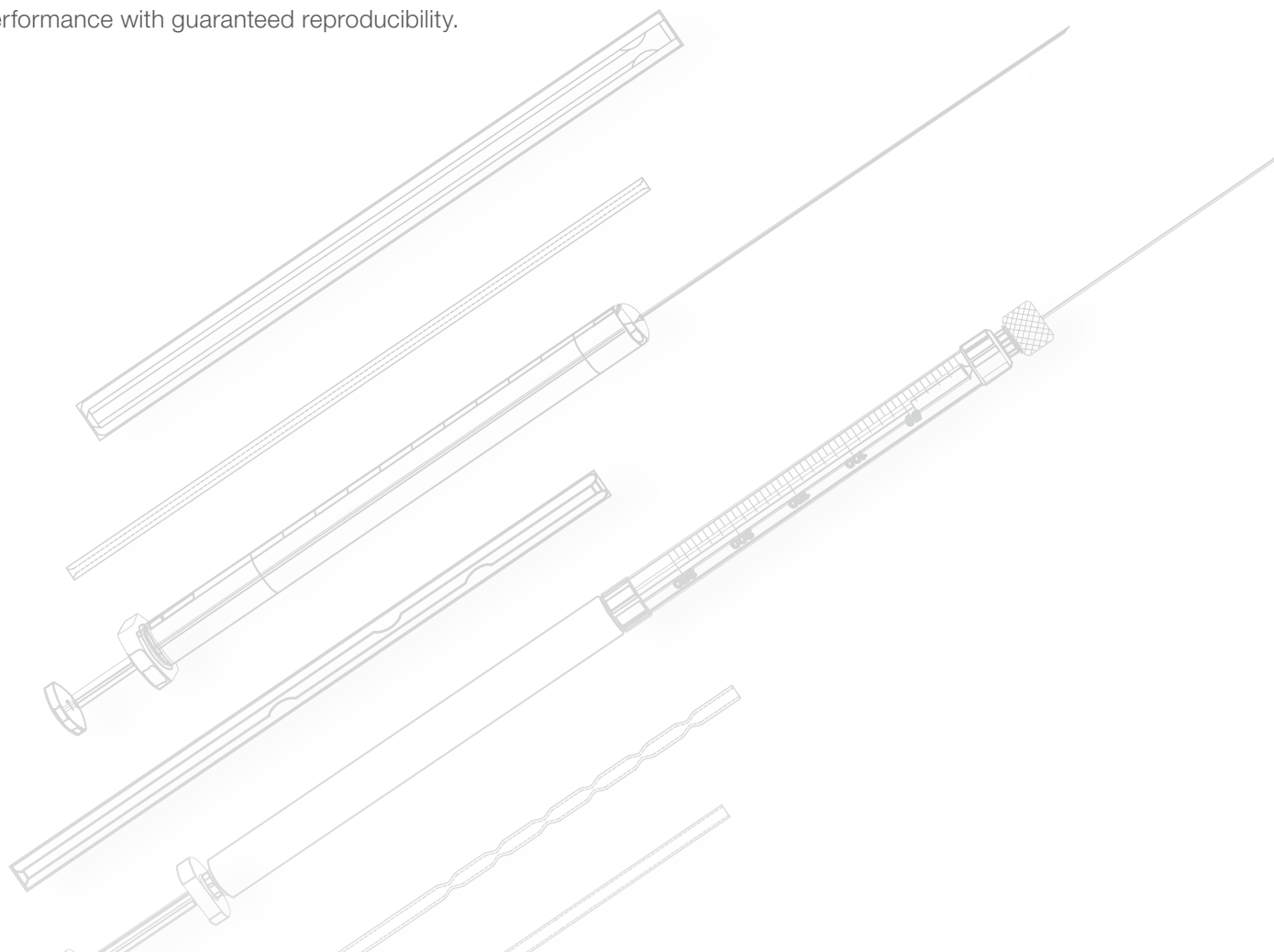
## Columns and consumables

The TRACE 1300 Series GC has been designed to be fully compatible with standard consumables used on different GC models and brands. We offer a complete range of columns and consumables to support the TRACE 1300 Series GC, ensuring optimum performance and high quality results.

For today's chromatographer, Thermo Scientific™ TraceGOLD™, Thermo Scientific™ TRACE™ and Thermo Scientific™ TracePLOT™ columns provide excellent quality and performance with guaranteed reproducibility.

Syringes, injection port liners, ferrules, gas filters, o-rings and septa are designed to complement our innovative GC and GC-MS systems.

This wide range of consumables and accessories is designed to offer application-focused solutions to customers in the petrochemical, food and beverage, environmental and other industries.







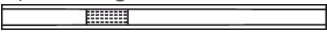
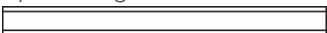
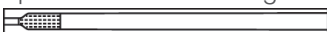


# Vials and Closures

## Vials and Closures

Description	Cat. No.	Quantity
2 mL crimp top vial, clear glass with ID patch and 11 mm blue aluminium cap, blue silicone/red PTFE seal	60180-597	100 Pack
2 mL screw top vial with 9 mm cap soft blue silicone/clear PTFE seal	60180-599	100 Pack
2 mL crimp top vial, clear wide mouth with ID patch	60180-502	100 Pack
2.5 mL crimp top vial, clear	60180-503	100 Pack
11 mm aluminium crimp caps with PTFE faced septa	60180-526	100 Pack
2 mL screw top vial, clear with ID patch	60180-508	100 Pack
8 mm polypropylene empty open top screw cap	60180-514	100 Pack
8 mm seal, blue silicone/clear PTFE	60180-515	500 Pack
300 µL screw top fixed insert vial, clear with ID patch	60180-507	100 Pack
2 mL wide mouth screw top vial, clear with ID patch	60180-509	100 Pack
9 mm screw cap, blue, prefitted silicone/PTFE seal	60180-516	100 Pack
9 mm magnetic cover and screw cap, prefitted with a soft silicone/PTFE seal	60180-517	100 Pack
300 µL snap cap fixed insert vial, clear with ID patch	03-FIRV	500 Pack
2 mL snap cap vial, clear with ID patch	2-RV	500 Pack
11 mm PE snap cap, prefitted with a blue silicone/PTFE seal	11-PSN(B)-ST101	500 Pack
10 mL crimp top vial, clear	60180-504	125 Pack
20 mL crimp top vial, clear	60180-506	125 Pack
20 mm aluminium crimp cap with PTFE/silicone seal, 3mm thick	60180-511	100 Pack

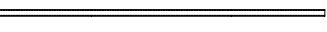

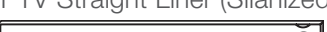







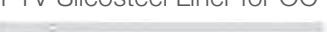
# Injection port liners

## SSL injection port liners

Injection Type	ID × OD (mm)	Length (mm)	Packing	Standard Liner Cat. No. (5 Pack)	LinerGOLD Cat. No. (5 Pack)	Recommended Use
Split Straight Liner 	4 × 6.3	78.5	Quartz Wool	453A2265*	453A2265-UI	Split injection, standard liner*
Split Straight Liner 	4 × 6.3	78.5	No	453A1295	453A1295-UI	Split injection, active samples
Splitless Liner with Single Taper 	4 × 6.3	78.5	Quartz Wool	453A1925	453A1925-UI	Splitless injection, standard liner
Split/Splitless Liner with Single Taper 	4 × 6.3	78.5	No	453A1345	453A1345-UI	Splitless injection, active samples
Direct Straight Liner 	1.2 × 6.3	78.5	No	453A1335	453A1335-UI	SPME; HS or without P&T adaptor
Split/Splitless Mini-Lam Liner	4 × 6.3	78.5	No	453A2009	–	

\* SSL injection port liners are available in both standard deactivation and LinerGOLD ultra inert deactivation versions

## SSL injection port liners

Injection Type	ID × OD (mm)	Length (mm)	Packing	Cat. No.	Quantity	Recommended Use
PTV Siltek Metal Liner 	2 × 2.75	120	No	45322044*	2 Pack	High boiling point samples, active samples
PTV Straight Liner (Non-deactivated) 	2 × 2.75	120	No	45322045	5 Pack	Universal
PTV Straight Liner (Silanized) 	2 × 2.75	120	No	45352057	5 Pack	Universal
PTV Split Liner with Recessed Gooseneck 	2 × 2.75	120	Quartz Wool	45352070	5 Pack	Trace samples, high recovery and linearity
PTV Siltek Metal Liner 	1 × 2.75	120	No	45322046	2 Pack	High boiling point samples, high recovery
PTV Straight Liner 	1 × 2.75	120	No	45352054	5 Pack	Universal, high recovery
PTV Siltek Metal Liner 	2 × 2.75	120	Quartz Wool	45322056	2 Pack	Trace samples, large volume injection
PTV Liner with Sintered Lining 	1 × 2.75	120	No	45352060	5 Pack	Active samples, large volume injection
PTV Liner with Three Baffles 	1 × 2.75	120	No	45352062	5 Pack	Active samples, high linearity
PTV Baffle Liner (Siltek) 	2 × 2.75	120	No	453T2120	5 Pack	High boiling samples, high linearity
PTV Silcosteel Liner for OC 	1 × 2.75	120	No	45322052	2 Pack	On-Column injections
PTV Mixed Liner Sample Pack	Mixed		Mixed	453TH003	5 Pack	

\* Standard liners are shipped with the TRACE 1300 Series GC

## Injection port liner seals

Description	Cat. No.	Quantity
Liner Sealing Ring for SSL Injector	29001320	5 Pack
Liner Sealing Ring for PTV Injector	29001318	1 Each

## Ferrules for standard SSL; SSL-Backflush; FID; TCD; ECD; NPD

Description	Cat. No.	Quantity
Graphite Ferrule for 0.1-0.32 mm Column	290GA139	10 Pack
Graphite Ferrule for 0.45-0.53 mm Column	290GA140	10 Pack
Graphite / Vespel Ferrule for 0.1-0.25 mm Column	290VA191	10 Pack
Graphite / Vespel Ferrule for 0.32 mm Column	290VA192	10 Pack
Graphite / Vespel Ferrule for 0.53 mm Column	290VA193	10 Pack

## Ferrules for standard PTV and PTV -Backflush

Description	Cat. No.	Quantity
Encapsulated Graphite Ferrule for 0.1-0.25 mm Column	29053488	10 Pack
Encapsulated Graphite Ferrule for 0.32 mm Column	29053487	10 Pack
Encapsulated Graphite Ferrule for 0.53 mm Column	29053486	10 Pack

## Injection port septa

Type	Material	ID (mm)	Cat. No.	Quantity
BTO	Low Bleed Silicone	11	31303233-BP	50 Pack
TR-Green	Low Coring Silicone	11	313G3230-BP	50 Pack
Marathon	Highly Durable	11	313P3233-BP	50 Pack

## Inlet base seals

For Use with	ID (mm)	Cat. No.	Quantity
Gold, Single Column Installation	0.8	290GA081	10 Pack
Gold, Single Column Installation	0.8	290GA082	2 Pack
Gold, Dual Column Installation	1.2	290GA121	10 Pack
Gold, Dual Column Installation	1.2	290GA122	2 Pack
Gold Cross Seal	0.8	290GA084	10 Pack
Gold Cross Seal	0.8	290GA083	2 Pack
Siltek-Treated Base Seals	0.8	290GA091	10 Pack
Siltek-Treated Base Seals	0.8	290GA092	2 Pack
Siltek-Treated Cross Base Seals	0.8	290GA094	10 Pack
Siltek-Treated Cross Base Seals	0.8	290GA093	2 Pack

## Autosampler syringes

Volume (µL)	Needle Type/Plunger	Length (mm)	Gauge	Tip Style
0.5	Plunger-in-Needle	50	23	Cone
0.5	Removable	57	23	Cone
1	Removable	57	23	Cone
5	Fixed	50	26	Cone
5	Fixed	50	23	Cone
5	Fixed	50	26	Cone
5	Fixed	57	23s	Cone
5	Fixed	57	26s	Cone
10	Fixed	50	26	Cone
10	Fixed	50	25	Cone
10	Fixed	50	23	Cone
10	Removable	50	26	Cone
10	Fixed	50	23-26	Cone
10	Removable	50	23	Cone
10	Fixed	57	23s	Cone
10	Fixed	57	26s	Cone
10	Fixed, Gas Tight	57	23s	Cone
10	Fixed, Gas Tight	57	26s	Cone
25	Fixed, Gas Tight	57	23s	Cone
25	Fixed, Gas Tight	57	26s	Cone
50	Fixed, Gas Tight	57	23s	Cone
50	Fixed, Gas Tight	57	26s	Cone
100	Removable, Gas Tight	50	23	Side Hole
100	Removable, Gas Tight	50	23	Cone
100	Fixed, Gas Tight	57	23s	Cone
100	Fixed, Gas Tight	57	26s	Cone
100	Fixed, Gas Tight	57	23	Side Hole
250	Removable, Gas Tight	50	23	Side Hole
250	Fixed, Gas Tight	57	26	Cone
250	Fixed, Gas Tight	57	23	Side Hole
500	Fixed, Gas Tight	57	26	Cone
500	Fixed, Gas Tight	57	23	Side Hole
1000	Fixed, Gas Tight	57	22	LC
1000	Gas Tight	65	23	Side Hole
2500	Gas Tight	65	23	Side Hole
2500	Gas Tight	57	23	Side Hole
5000	Gas Tight	65	22	Side Hole
10000	Fixed, Gas Tight	57	19	LC

TriPlus RSH syringes are color-coded for easy identification of the syringe in the autosampler. Please refer to the color-coding in the table above



	<b>Application Area</b>	<b>Cat. No.</b>	<b>Instrument Compatibility</b>	<b>Quantity</b>
	Split/PTV	36504045	TriPlus, AS3000, AS1310	1 Each
	Split	365A0241	TriPlus RSH	1 Each
	Split	365B0251	TriPlus RSH	1 Each
	Split/PTV	36504047	TriPlus	1 Each
		365C3701	AS3000, AS1310	1 Each
	Split/PTV	36500505	AS3000, AS1310	1 Each
	Merlin Valve injector: PTV and split	365C0231	TriPlus RSH	1 Each
	Split and PTV	365C0251	TriPlus RSH	1 Each
		365D3711	AS3000, AS1310	1 Each
	Split/PTV	36500525	TriPlus, AS3000, AS1310	1 Each
	PTV/SSL Split	36520060	TriPlus, AS3000, AS1310	1 Each
		365D1841	AS3000, AS1310	1 Each
	OC in PTV Merlin Valve	36500580	TriPlus	1 Each
		365D3731	AS3000, AS1310	1 Each
	Merlin Valve injector: PTV and split	365D0271	TriPlus RSH	1 Each
	Split and PTV	365D0291	TriPlus RSH	1 Each
	Merlin Valve injector: PTV and split	365D0311	TriPlus RSH	1 Each
	Split and PTV	365D0331	TriPlus RSH	1 Each
	Merlin Valve injector: PTV and split	365F2441	TriPlus RSH	1 Each
	Split and PTV	365F2461	TriPlus RSH	1 Each
	Merlin Valve SSL injector: LV splitless	365G2311	TriPlus RSH	1 Each
	LV splitless	365G2331	TriPlus RSH	1 Each
		36520050	TriPlus	1 Each
	LV Splitless	36500495	TriPlus	1 Each
	Merlin Valve SSL injector: LV splitless	365H2141	TriPlus RSH	1 Each
	LV Splitless	365H2161	TriPlus RSH	1 Each
	LV PTV (with or without Merlin Valve)	365H2181	TriPlus RSH	1 Each
		36520051	TriPlus	1 Each
	LV splitless	365I2331	TriPlus RSH	1 Each
	LV PTV (with or without Merlin Valve)	365I2351	TriPlus RSH	1 Each
	Sample dilution	365J2421	TriPlus RSH	1 Each
	LV PTV (with or without Merlin Valve)	365J2441	TriPlus RSH	1 Each
	Sample dilution	365K2811	TriPlus RSH	1 Each
	Headspace	365Q2121	TriPlus RSH	1 Each
	Headspace	365Q2131	TriPlus RSH	1 Each
	Headspace	365L2321	TriPlus RSH	1 Each
	Headspace	365Q2141	TriPlus RSH	1 Each
	Sample Dilution	365N2721	TriPlus RSH	

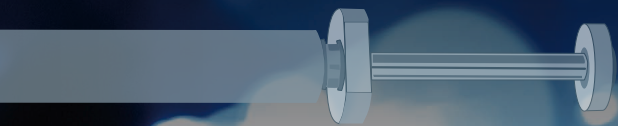


## Manual syringes

Volumes (µmL)	Needle Type/Plunger	Length (mm)	Gauge	Tip Style	Cat. No.
5	Fixed	50	26	Bevel	365C0741
10	Removable	50	26	Bevel	365D1171
10	Fixed	50	26	Bevel	365D1091
25	Removable	50	25	Bevel	365F1901
25	Removable, Gas Tight	50	25	Bevel	365F1931
25	Fixed	50	25	Bevel	365F1891
50	Removable	50	25	Bevel	365G2091
50	Fixed, Gas Tight	50	25	Bevel	365G2111
100	Fixed, Gas Tight	50	25	Bevel	365H2321
100	Fixed	50	25	Bevel	365H2291
250	Fixed, Gas Tight	50	25	Bevel	365I2561
250	Fixed	50	25	Bevel	365I2541
500	Removable, Gas Tight	50	25	Bevel	365J2881
1000	Removable, Gas Tight	50	23	Bevel	365K3041
1000	Fixed, Gas Tight	50	22	Bevel	365K3051

Thermo  
SCIENTIFIC

TRACE T310



### TraceGOLD GC columns

Quantity	Phase	ID (mm)	Length (mm)	Film Thickness (µm)	Cat. No.	Quantity
1 Each	TG-5MS	0.25	50	0.25	26098-1300	1 Each
1 Each	TG-5MS	0.25	50	0.25	26098-1420	1 Each
1 Each	TG-5SiIMS	0.25	50	0.25	26096-1420	1 Each
1 Each	TG-5HT	0.25	50	0.1	26095-0470	1 Each
1 Each	TG-1MS	0.25	50	0.25	26099-1420	1 Each
1 Each	TG-624	0.25	50	1.4	26085-3320	1 Each
1 Each	TG-17MS	0.25	50	0.25	26089-1420	1 Each
1 Each	TG-WaxMS	0.25	50	0.25	26088-1420	1 Each
1 Each	TG-WaxMS	0.32	50	0.25	26088-1430	1 Each

Other phases and dimensions are available – please visit

[www.thermofisher.com/gcconsumables](http://www.thermofisher.com/gcconsumables)

### Column accessories

Description	Cat. No.	Quantity
Column Nut for PTV and PTV Backflush	35053221	5 Pack
Column Nut for SSL-SSL-Backflush, FID, ECD, TCD and NPD	35050458	5 Pack
Silver Gasket	29013820	2 Pack

thermo scientific

# Thermo Scientific AppsLab Library of Analytical Applications

## Find Your Chromatography and MS Applications

The Thermo Scientific™ AppsLab Library of Analytical Applications is a web-portal which gives you access to our comprehensive chromatography application expertise. It's a free of charge online repository that allows you to access the entire breadth of Thermo Scientific applications and which is constantly updated with newly released applications. Whether you need to implement validated methods or optimize your separation, whether you use Thermo Scientific™ Chromeleon CDS™ software or not, the AppsLab Library makes our global application expertise accessible to you – online and downloadable.

**Cross-technique application expertise in a single online location**



find a  
method



download  
1-click workflow



run, process,  
report

The AppsLab Library increases productivity by letting you access LC, IC, GC, LC-MS, and GC-MS application notes in one location and providing download of one-click workflows, immediately ready to run with Chromeleon CDS.

Start using today at [www.thermofisher.com/AppsLab](http://www.thermofisher.com/AppsLab).



Methods, workflows and more

Find out more at [thermofisher.com/gcconsumables](http://thermofisher.com/gcconsumables)

**ThermoFisher**  
SCIENTIFIC

**For Research Use Only. Not for use in diagnostic procedures.** © 2017 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. BR21512-EN 0117S