

La-Pha-Pack®

Werner Reifferscheidt GmbH



Consumables

CombiPAL GC/GC-MS Sample Injector
Static Headspace Liquid SPME Injection

HTS PAL LC/LC-MS Sample Injector
High Throughput Application



...CTC ANALYTICS

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Dear Customer,

this brochure should help users to find the correct consumables out of our product line for their type of instrument of the CTC autosampler.

The brochure is divided in four fields of application:

HPLC	With instrument(s):	LC PAL	HTC PAL	HTS PAL
GC	With instrument(s):	GC PAL	COMBI PAL	
HS	With instrument(s):		COMBI PAL	
HTS	With instrument(s):	HTS PAL	HTC PAL	

Preface

Consumables listed in the individual chapters have been approved by Messrs. CTC Analytics to be suitable for usage on the indicated type of the CTC autosampler. However, cost-free samples can be requested any time for testing.

All products of this brochure are standard products and thus normally deliverable ex stock. Our company policy prohibits supply to end-users. However, we will be glad to help any user in possession of an instrument of Messrs. CTC Analytics with technical advice and samples. Upon request we can provide you with addresses of dealers that distribute our products.

The brochure includes only the most common products for the CTC autosampler. Of course,

you will find further seals and vials in our general catalogue, which we will send you upon request.

Furthermore this brochure contains general consumables, like Vial Racks, Crimping Tools or Syringe Filters, that are required in connection with the analysis of samples, however are independent from the instrument. Detailed information on these products can also be taken from our general catalogue.

We would like to express our sincerest thanks to Messrs. CTC Analytics for their support in designing this brochure. Our appreciation is meant for the Technical Division of Messrs. CTC Analytics for their suggestions for the optimization of the products as well as for the Marketing Division for providing the photographs and for the correction of the content of our draft.

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1. Short Thread ND9 (wide opening)



11 09 0500	11 09 0519	11 09 0520	11 19 1205 11 19 1516	06 09 0357	06 09 0669	06 09 0865	06 09 0866
1.5ml Short Thread Vial, 32 x 11.6mm, clear glass, 1 st hydrat. class, wide opening	1.5ml Short Thread Vial, 32 x 11.6mm, clear glass, 1 st hydrat. class, wide opening, label + filling lines	1.5ml Short Thread Vial, 32 x 11.6mm, amber glass, 1 st hydrat. class, wide opening, label + filling lines	1.5ml PP Short Thread Vial, 32 x 11.6mm, transparent/amber with filling lines, slightly concave shaped bottom	0.1ml Micro-Insert, 31 x 6mm, clear glass, 15mm top	0.1ml Micro-Insert, 31 x 6mm, clear glass, 12mm top	0.1ml Micro-Insert, 29 x 5.7mm, clear glass, with assembled plastic spring	0.2ml Micro-Insert, 31 x 6mm, clear glass, flat bottom
SILANIZED: 11 09 1241	SILANIZED: 11 09 1242	SILANIZED: 11 09 1242	SILANIZED: 06 09 1240	SILANIZED: 06 09 1343			
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PE-Bag	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box

HPLC

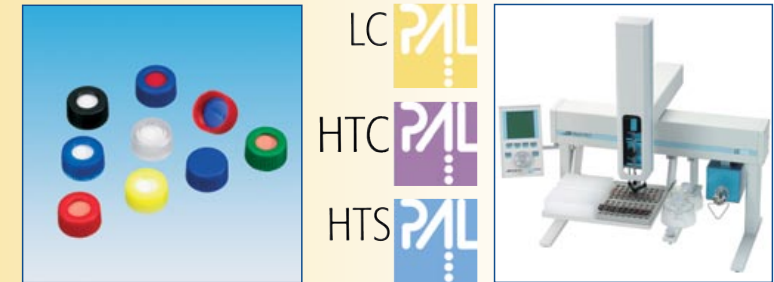
11 09 0999	11 09 0620	11 14 1189	11 14 1655	11 19 0932
Short Thread Vial with integrated 0.2ml Micro-Insert, clear glass, 1 st hydrat. class, with label + filling lines	1.1ml Microfilter Short Thread Vial ND9, 32 x 11.6mm, clear glass, 1 st hydrat. class	TPX Short Thread Vial, 32 x 11.6mm, clear, with integrated 0.2ml Glass Micro-Insert	TPX Short Thread Vial, 32 x 11.6mm, amber, with integrated 0.2ml Glass Micro-Insert	0.3ml PP Short Thread Micro-Vial, 32 x 11.6mm
SILANIZED: 11 14 1265	SILANIZED: 11 14 1694	SILANIZED: 11 14 1694	SILANIZED: 11 14 1694	in TPX: 11 19 1021
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PE-Bag



We can also supply barcode labelled or pre-sealed Vials!
Any combination of 1.5ml Vials with one of the appropriate seals can be supplied as 2in1 KIT!

12 21 1001
Vial Rack, Acrylic, 173 x 95 x 20mm, 50 cavities with a diameter of 12mm
1 piece

1. Short Thread ND9 (cont.)



Seal	Cap	with assembled Septa
09 15 0478	9mm PP Short Thread Screw Cap, transparent, centre hole	Natural Rubber red-orange/TEF transparent, 60° shore A, 1.0mm
09 15 0867	9mm PP Short Thread Screw Cap, blue, centre hole	
09 15 1176	9mm PP Short Thread Screw Cap, red, centre hole	
09 15 0481	9mm PP Short Thread Screw Cap, transparent, centre hole	UltraClear Silicone white/PTFE red, 55° shore A, 1.0mm
09 15 0838	9mm PP Short Thread Screw Cap, blue, centre hole	
09 15 1178	9mm PP Short Thread Screw Cap, red, centre hole	
09 15 0480	9mm PP Short Thread Screw Cap, transparent, centre hole	PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm
09 15 0868	9mm PP Short Thread Screw Cap, blue, centre hole	
09 15 1177	9mm PP Short Thread Screw Cap, red, centre hole	
09 15 0852	9mm PP Short Thread Screw Cap, transparent, centre hole	Silicone white/PTFE blue, 55° shore A, 1.0mm, with slit
09 15 0869	9mm PP Short Thread Screw Cap, blue, centre hole	
09 15 1179	9mm PP Short Thread Screw Cap, red, centre hole	

Upon request also available with black, yellow or green Short Thread Cap!

Packaging Unit: 100 pcs. per PE-Bag

LC/MS Short Thread Cap (One component closure – no bleeding)

	09 08 2000	MS-Cap, 9mm Short Thread Cap, transparent with thinned penetration area + diaphragm
		<ul style="list-style-type: none"> One component closure – absolute no bleeding Inert Can be penetrated as a septa LC/GC MS certified Tight closure

UltraBond™ Seals ND9 (Cap + Liner form an unseparable unit, so that the liner cannot be pushed into the vial even with a blunt needle)

Art. No.	Description Cap	Septa Material	Durometer	Thickn.
09 04 1220	PP Short Thread Cap black, 6mm centre hole	Silicone white/PTFE red	45° shore A	1.3mm
09 04 1533	PP Short Thread Cap blue, 6mm centre hole	Silicone beige/PTFE white improved WATERS® Quality	45° shore A	1.3mm
09 04 1534	PP Short Thread Cap blue, 6mm centre hole	Silicone beige/PTFE white, with slit improved WATERS® Quality	45° shore A	1.3mm

Packaging Unit: 100 pcs. per PE-Bag

2in1 KIT	Vial	Seal
11 24 1050	11 09 0500: 1.5ml Short Thread Vial, 32 x 11.6mm, clear glass	09 15 0838
11 24 1143	11 09 0519: 1.5ml Short Thread Vial, 32 x 11.6mm, clear glass, label + filling lines	9mm PP Short Thread Cap, blue, centre hole; UltraClear Silicone white/PTFE red, 55° shore A, 1.0mm
11 24 1342	11 09 0520: 1.5ml Short Thread Vial, 32 x 11.6mm, amber glass, label + filling lines	
11 24 1051	11 09 0500: 1.5ml Short Thread Vial, 32 x 11.6mm, clear glass	
11 24 1238	11 09 0519: 1.5ml Short Thread Vial, 32 x 11.6mm, clear glass, label + filling lines	
11 24 1573	11 09 0520: 1.5ml Short Thread Vial, 32 x 11.6mm, amber glass, label + filling lines	
11 24 1129	11 09 0620: 1.1ml Microfilter Short Thread Vial ND9, 32 x 11.6mm, clear glass	09 15 0869 9mm PP Short Thread Cap, blue, centre hole; Silicone white/PTFE blue, 55° shore A, 1.0mm, with slit

Packaging Unit: 100 pcs. each in one KIT

2. Snap Ring ND11 (wide opening)



We can also supply barcode labelled or pre-sealed Vials!

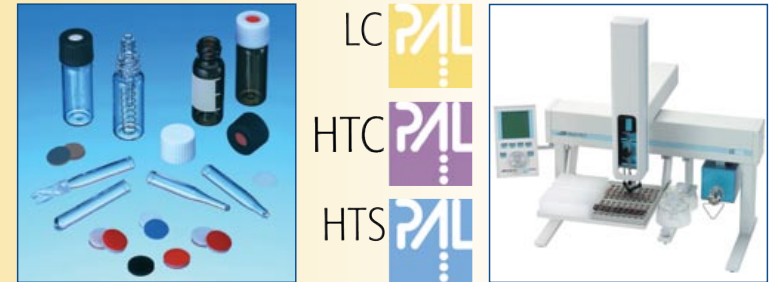
11 09 0627 1.5ml Snap Ring Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening	11 09 0644 1.5ml Snap Ring Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening, label + filling lines	11 09 0645 1.5ml Snap Ring Vial, 32 x 11.6mm, amber glass, 1 st hydrol. class, wide opening, label + filling lines	06 09 0357 0.1ml Micro-Insert, 31 x 6mm, clear glass, 15mm top	06 09 0669 0.1ml Micro-Insert, 31 x 6mm, clear glass, 12mm top	06 09 0865 0.1ml Micro-Insert, 29 x 5.7mm, clear glass, with assembled plastic spring	06 09 0866 0.2ml Micro-Insert, 31 x 6mm, clear glass, flat bottom
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	SILANIZED: 06 09 1240 10 x 100 pcs. per PP-Box		SILANIZED: 06 09 1343 10 x 100 pcs. per PP-Box	

11 14 1190 TopSert TPX Snap Ring Vial, 32 x 11.6mm, clear, with integrated 0.2ml Glass Micro-Insert	11 14 1656 TopSert TPX Snap Ring Vial, 32 x 11.6mm, amber, with integrated 0.2ml Glass Micro-Insert	11 19 1707 0.7ml PP Snap Ring Micro-Vial, 32 x 11.6mm cylindrical Insert	11 19 0933 0.3ml PP Snap Ring Micro-Vial, 32 x 11.6mm in TPX: 11 19 1022
SILANIZED: 11 14 1266 100 pcs. per PP-Box	SILANIZED: 11 14 1695 100 pcs. per PP-Box	100 pcs. per PE-Bag	100 pcs. per PE-Bag

Seal	Cap	with assembled Septa
11 15 0635	11mm PE Snap Ring Cap transparent, centre hole	Natural Rubber red-orange/TEF transparent, 60° shore A, 1.0mm
11 15 1267	11mm PE Snap Ring Cap blue, centre hole	
11 15 1323	11mm PE Snap Ring Cap red, centre hole	
11 15 0637	11mm PE Snap Ring Cap transparent, centre hole	UltraClear Silicone white/PTFE red, 45° shore A, 1.3mm
11 15 1151	11mm PE Snap Ring Cap blue, centre hole	
11 15 1325	11mm PE Snap Ring Cap red, centre hole	
11 15 0636	11mm PE Snap Ring Cap transparent, centre hole	PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm
11 15 1268	11mm PE Snap Ring Cap blue, centre hole	
11 15 1324	11mm PE Snap Ring Cap red, centre hole	
11 15 0650	11mm PE Snap Ring Cap transparent, centre hole	Silicone white/PTFE blue, 55° shore A, 1.0mm, cross-slitted
11 15 1269	11mm PE Snap Ring Cap blue, centre hole	
11 15 1326	11mm PE Snap Ring Cap red, centre hole	
11 08 1676	PE Push On Cap, blue	with thinned penetration point

Upon request also available with yellow or green Snap Ring Cap!
Transparent and blue Snap Ring Caps also available in a soft PE quality!
Snap Ring Vials can alternatively be crimped with Standard Aluminium Crimp Seals!

3. Screw Neck ND8 (small opening)



11 09 0210 1.5ml Screw Neck Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, small opening	11 09 0259 1.5ml Screw Neck Vial, 32 x 11.6mm, amber glass, 1 st hydrol. class, small opening	11 09 0419 1.5ml Screw Neck Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, small opening, label + filling lines	11 09 0382 1.5ml Screw Neck Vial, 32 x 11.6mm, amber glass, 1 st hydrol. class, small opening, label + filling lines	11 09 0417 1.1ml Micro-Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, conical	05 09 0129 0.1ml Micro-Insert, 31 x 5mm, clear glass, 15mm top	05 09 0269 0.1ml Micro-Insert, 31 x 5mm, clear glass, 9mm top	05 09 1674 0.2ml Micro-Insert, 31 x 5mm, clear glass, 1 st hydrol. class, flat bottom	05 09 0968 0.1ml Micro-Insert, 29 x 5mm, clear glass, with assembled plastic spring
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box

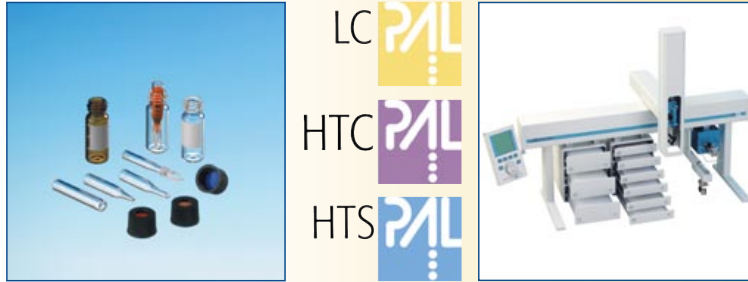
We can also supply barcode labelled or pre-sealed Vials!

Seal	Cap	with assembled Septa
08 15 0460	8mm Polypropylene Screw Cap, black, centre hole	Natural Rubber red-orange/TEF transparent, 60° shore A, 1.3mm
08 15 0293	8mm Polypropylene Screw Cap, black, centre hole	UltraClear Silicone white/PTFE red, 45° shore A, 1.3mm
08 15 0294	8mm Polypropylene Screw Cap, black, centre hole	PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm

Caps/Septa unassembled	Packaging Unit
08 08 0027 8mm Polypropylene Screw Cap, black, centre hole	100 pcs. per PE-Bag
08 02 0177 8mm Septa, PTFE virginal, 53° shore D, 0.25mm (only unassembled)	1000 pcs. per PE-Bag
08 02 0039 8mm Septa, Silicone white/PTFE blue, 55° shore A, 0.9mm, with slit (only unassembled)	1000 pcs. per PE-Bag

Upon request further Screw Seals with different septa and the following caps are available:
- black, closed top
- white, centre hole
- white, closed top

4. Screw Neck ND10 (wide opening)



LC
HTC
HTS

10 09 0743	10 09 1196	10 09 1197	06 09 0357	06 09 0669	06 09 0865	06 09 0866
1.5ml Screw Neck Vial, 10-425 Thread, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening	1.5ml Screw Neck Vial, 10-425 Thread, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening, label + filling lines	1.5ml Screw Neck Vial, 10-425 Thread, 32 x 11.6mm, amber glass, 1 st hydrol. class, wide opening, label + filling lines	0.1ml Micro-Insert, 31 x 6mm, clear glass, 15mm top SILANIZED: 06 09 1240	0.1ml Micro-Insert, 31 x 6mm, clear glass, 12mm top	0.1ml Micro-Insert, 29 x 5.7mm, clear glass, with assembled plastic spring SILANIZED: 06 09 1343	0.2ml Micro-Insert, 31 x 6mm, clear glass, flat bottom
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box

We can also supply barcode labelled or pre-sealed Vials!

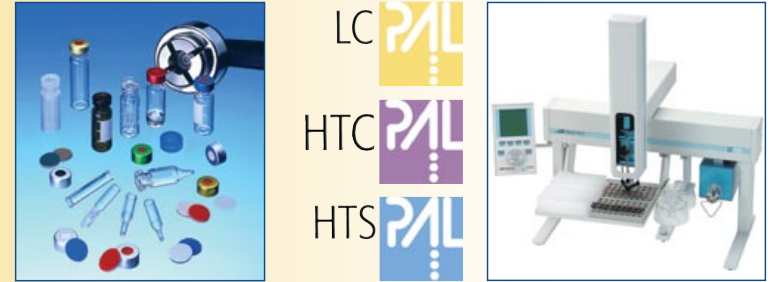
Seal	Cap	with assembled Septa
10 15 1256	10mm Polypropylene Screw Cap, black, centre hole	Natural Rubber red-orange/TEF transparent, 60° shore A, 1.3mm
10 15 1257	10mm Polypropylene Screw Cap, black, centre hole	UltraClear Silicone white/PTFE red, 45° shore A, 1.3mm
10 15 0744	10mm Polypropylene Screw Cap, black, centre hole	Silicone white/PTFE beige, 45° shore A, 1.5mm
10 15 1328	10mm Polypropylene Screw Cap, black, centre hole	Silicone white/PTFE blue, with slit, 55° shore A, 1.5mm
10 15 1258	10mm Polypropylene Screw Cap, black, centre hole	PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm

Packaging Unit: 100 pcs. per PE-Bag

Caps/Septa unassembled		Packaging Unit
10 08 0742	10mm Polypropylene Screw Cap, black, centre hole	100 pcs. per PE-Bag
10 02 0646	10mm Septa, PTFE virginal, 53° shore D, 0.25mm (only unassembled)	1000 pcs. per PE-Bag
09 02 0723	Silicone white/PTFE beige, 45° shore A, 1.5mm	1000 pcs. per PE-Bag

HPLC

5. Crimp Neck ND11 (wide opening)



LC
HTC
HTS

11 09 0356	11 09 0476	11 09 0477	11 09 0619	11 09 0921	06 09 0357	06 09 0669	06 09 0865	06 09 0866
1.5ml Crimp Neck Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening	1.5ml Crimp Neck Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening, label + filling lines	1.5ml Crimp Neck Vial, 32 x 11.6mm, amber glass, 1 st hydrol. class, wide opening, label + filling lines	1.1ml Microfiller Crimp Neck Vial ND11, 32 x 11.6mm, clear glass, 1 st hydrol. class	Crimp Neck Vial with integrated 0.2ml Micro-Insert, 32 x 11.6mm, clear glass, 1 st hydrol. class, with label + filling lines	0.1ml Micro-Insert, 31 x 6mm, clear glass, 15mm top SILANIZED: 06 09 1240	0.1ml Micro-Insert, 31 x 6mm, clear glass, 12mm top	0.1ml Micro-Insert, 29 x 5.7mm, clear glass, with assembled plastic spring SILANIZED: 06 09 1343	0.2ml Micro-Insert, 31 x 6mm, clear glass, flat bottom
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box

HPLC

Seal	Cap	with assembled Septa
11 03 0209	11mm Aluminium Crimp Cap, clear lacquered, centre hole	Natural Rubber red-orange/TEF transparent, 60° shore A, 1.0mm
11 03 0247	11mm Aluminium Crimp Cap, clear lacquered, centre hole	UltraClear Silicone white/PTFE red, 45° shore A, 1.3mm
11 03 0464	11mm Aluminium Crimp Cap, clear lacquered, centre hole	Silicone white/PTFE blue, cross-slitted, 55° shore A, 1.5mm
11 03 0196	11mm Aluminium Crimp Cap, clear lacquered, centre hole	PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm
11 08 1676	PE Push-On Cap, blue	with thinned penetration point

Packaging Unit: 100 pcs. per PE-Bag

11 06 0006	11 07 0002	12 21 1001	We can also supply barcode labelled or pre-sealed vials!	
1mm Crimper	11mm Decapper	Vial Rack, Acrylic, 173 x 95 x 20mm, 50 cavities with a diameter of 12mm	Any combination of 1.5ml Vials with one of the appropriate seals can be supplied as 2in1 KIT!	
1 pc. per PP-Box	1 pc. per PP-Box	1 pc.		

6. Crimp Neck ND8



COMBI PAL
GC PAL



08 09 0305	08 09 0258	08 09 0606	08 09 0276	08 09 0405	08 09 0406
0.7ml Micro-Vial, 40 x 7mm, clear glass, 1 st hydrol. class, conical	0.7ml Micro-Vial, 40 x 7 mm, amber glass, 1 st hydrol. class, conical	0.3ml Micro-Vial, 31.5 x 5.5mm, clear glass, 1 st hydrol. class, conical	0.3ml Micro-Vial, 31.5 x 5.5mm, clear glass, 1 st hydrol. class, round bottom	0.7ml Crimp Neck Vial, 40 x 7mm, clear glass, 1 st hydrol. class	0.7ml Crimp Neck Vial, 40 x 7mm, amber glass, 1 st hydrol. class
10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box

Seal	Cap	with assembled Septa
08 03 0249	8mm Aluminium Crimp Cap, clear lacquered, centre hole	UltraClear Silicone white/PTFE red, 45° shore A, 1.3mm
08 03 0113	8mm Aluminium Crimp Cap, clear lacquered, centre hole	PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm <small>Packaging Unit: 100 pcs. per PE-Bag</small>

08 06 0005	08 07 0001	08 21 1000	02 17 0472	02 17 0473
8mm Crimper	8mm Decapper	Vial Rack, Acrylic, 173 x 95 x 20mm, 50 cavities with a diameter of 8.5/3mm	Universal Capillary Connector for 2 columns, for all columns with an ID of 0.20-0.53mm and an OD of 0.30-0.75mm	Universal Y Capillary Connector for 3 columns, for all columns with an ID of 0.20-0.53mm and an OD of 0.30-0.75mm
1 pc. per PP-Box	1 pc. per PP-Box	1 pc.	10 pcs. per PP-Box	1 pc. per PP-Box

GC

7. Crimp Neck ND11 (wide opening)



COMBI PAL
GC PAL



11 09 0356	11 09 0476	11 09 0477	11 09 0619	11 09 0415	06 09 0357	06 09 0669	06 09 0865	06 09 0866
1.5ml Crimp Neck Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening	1.5ml Crimp Neck Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, wide opening, label + filling lines	1.5ml Crimp Neck Vial, 32 x 11.6mm, amber glass, 1 st hydrol. class, wide opening, label + filling lines	1.1ml Microfiller Crimp Neck Vial ND11, 32 x 11.6mm, clear glass, 1 st hydrol. class	1.1ml Micro-Vial, 32 x 11.6mm, clear glass, 1 st hydrol. class, conical	0.1ml Micro-Insert, 31 x 6mm, clear glass, 15mm top	0.1ml Micro-Insert, 31 x 6mm, clear glass, 12mm top	0.1ml Micro-Insert, 29 x 5.7mm, clear glass, with assembled plastic spring	0.2ml Micro-Insert, 31 x 6mm, clear glass, flat bottom
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	SILANIZED: 06 09 1240 10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box	10 x 100 pcs. per PP-Box

Seal	Cap	with assembled Septa
11 03 0318	11mm Magnetic Crimp Cap, gold, centre hole	UltraClear Silicone white/PTFE red, 45° shore A, 1.3mm
11 03 0332	11mm Magnetic Crimp Cap, gold, centre hole	PTFE red/Silicone white/PTFE red, 45° shore A, 1.0mm <small>Packaging Unit: 100 pcs. per PE-Bag</small>

11 06 0006	11 07 0002	12 21 1001		
11mm Crimper	11mm Decapper	Vial Rack, Acrylic, 173 x 95 x 20mm, 50 cavities with a diameter of 12mm	We can also supply barcode labelled or pre-sealed vials!	Any combination of 1.5ml Vials with one of the appropriate seals can be supplied as 2in1 KIT!
1 pc. per PP-Box	1 pc. per PP-Box	1 pc.		

GC

8. Screw Neck ND18



COMBI PAL



Universal (Headspace + SPME)					
18 09 1307 18 09 1311	18 09 1306 18 09 1310	18 03 1309	18 03 1416	18 03 1414	18 03 1578
20ml Screw Neck Vial ND18, 75.5 x 22.5mm, clear/amber glass, 1 st hydrol. class, with Precision Thread, rounded bottom	10ml Screw Neck Vial ND18, 46 x 22.5mm, clear/amber glass, with Precision Thread, rounded bottom	UltraClear-Seal: 18mm Magn. Screw Cap, silver, 8mm centre hole; Silicone blue transp./PTFE white, 45° shore A, 1.3mm	18mm Magn. Screw Cap, silver, 8mm centre hole; Butyl red/PTFE grey, 55° shore A, 1.6mm	UltraClear-Seal: 18mm Magn. Screw Cap, silver, 8mm centre hole; Silicone white/PTFE blue, 55° shore A, 1.5mm	UltraClear-Seal: 18mm Magn. Screw Cap, silver, 8mm centre hole; Silicone white/PTFE red, 45° shore A, 1.3mm
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PE-Bag	100 pcs. per PE-Bag	100 pcs. per PE-Bag	100 pcs. per PE-Bag
18 03 1666	18 03 1667	17 02 1417	17 02 1415	17 02 1318	17 02 1580
18mm Magn. Screw Cap, silver, closed top, Silicone white/PTFE red, 45° shore A, 1.3mm	18mm Magn. Screw Cap, silver, closed top, Butyl red/PTFE grey, 55° shore A, 1.6mm	Septa, Silicone blue transp./PTFE white, 45° shore A, 1.3mm	Septa, Butyl red/PTFE grey, 55° shore A, 1.6mm	Septa, Silicone white/PTFE blue, 55° shore A, 1.5mm	Septa, Silicone white/PTFE red, 45° shore A, 1.3mm
100 pcs. per PE-Bag	100 pcs. per PE-Bag	1,000 pcs. per PE-Bag	1,000 pcs. per PE-Bag	1,000 pcs. per PE-Bag	1,000 pcs. per PE-Bag
<ul style="list-style-type: none"> comparable results regarding tightness as with Crimp Neck Headspace Vials due to the precision thread that draws the septa tight against the vial reproducible results, as unlightnesses due to crimping faults by incorrectly adjusted or non-adjustable crimpers are excluded samples can be taken and stored directly in the field in the analysis vial, so that a later sample transfer in the lab is unnecessary 8mm centre hole of the cap offers enough space for the SPME-Phase for a safe penetration UltraClear 1.3 / 1.5mm thick Silicone/PTFE septa offers good stability and excellent sealing at even high pressure in the vial 		<ul style="list-style-type: none"> thin and easy to penetrate Silicone/PTFE septa in different qualities alternatively 1.6mm thick, 55° shore A hard Butyl/PTFE septa as a less cost-intensive alternative for a lower temperature range and for uncritical analysis in the Headspace field no more transportation problems in the autosampler with incorrectly crimped vials more convenient and easier to open and to close can be used for Headspace analysis as well as for SPME application no additional costs for crimping tools time and energy saving closure technique 20ml Vials can be supplied in combination with a seal of your choice as 2ml KITS 			

HS

9. Crimp Neck ND20



COMBI PAL



20 09 0873 / 20 09 1690	20 09 1405 / 20 09 1691	20 09 0873 / 20 09 1690	20 09 1222
20ml Headspace-Vial, 75.5 x 22.5mm, clear/amber glass, 1 st hydrol. class, DIN-crimp neck, long neck, rounded bottom	10ml Headspace-Vial, 46 x 22.5mm, clear/amber glass, 1 st hydrol. class, DIN-crimp neck, rounded bottom	20ml Headspace-Vial, 75.5 x 22.5mm, clear/amber glass, 1 st hydrol. class, DIN-crimp neck, long neck, rounded bottom	20ml SPME Vial, 75.5 x 22.5mm, clear glass, 1 st hydrol. class, rounded bottom, special crimp neck
100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box	100 pcs. per PP-Box
20 03 0665*	20 03 0975	20 03 0975	20 03 1246
UltraClear-Seal: 20mm Magn. Crimp Cap, special alloy, gold lacquered, 8mm centre hole; Silic. blue transp./PTFE white, 45° shore A, 3.0mm	UltraClear-Seal: 20mm Magn. Crimp Cap, special alloy, gold lacquered, 8mm centre hole; Silic. blue transp./PTFE white, 45° shore A, 3.0mm	UltraClear-Seal: 20mm Magn. Crimp Cap, special alloy, gold lacquered, 8mm centre hole; Silic. blue transp./PTFE white, 45° shore A, 3.0mm	UltraClear-Seal: 20mm Magn. Crimp Cap, special alloy, gold lacquered, 8mm centre hole; Silic. blue transp./PTFE white, 45° shore A, 3.0mm
100 pcs. per PE-Bag	100 pcs. per PE-Bag	100 pcs. per PE-Bag	100 pcs. per PE-Bag
20 06 0008	20 07 0004		24 21 1002
20mm Crimper	20mm Decapper		Vial Rack, Acrylic, 160 x 160 x 30mm, 25 cavities with a diameter of 24mm
1 pc. per PP-Box	1 pc. per PP-Box		1 pc.

* only suitable for the following autosamplers: Carlo Erba HS500/HS800, CTC 500, Fisons HS500/HS800, Varian/Chrompack 9020/25



Washer Bottle	Washer Bottle
20 09 1822	20 09 1405
120ml Crimp Neck Vial, 49 x 75mm, clear glass, 1° hydrolytic class, DIN-Crimp Neck	10ml Headspace-Vial, 46 x 22.5mm, clear glass, 1° hydrolytic class, DIN-Crimp Neck, rounded bottom
4 pcs. in a cardboard box	100 pcs. per PP-Box
22 15 1824	
22mm Combination Seal: PE Cap, transparent, centre hole, cap height 9.1mm; Silicone blue transparent/PTFE white, 45° shore A, 1.3mm, Y-slitted	
100 pcs. per PE-Bag	

CTC Others

10. 96 Position Block Systems



	HTS	HTC		
	08 20 0897	08 20 0911	08 20 0943	
Filled Block	Deep Well Block „ziplate“, PP, 96 Positions (RITTER), filled with 0.35ml DW-Micro-Insert, 42.5 x 6mm, clear glass, 17mm top, with assembled 9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm	Square Well Block „ziplate“, PP, 96 Positions (RITTER), filled with 1ml SQW-Micro-Insert, 45.9 x 7.6mm, clear glass, round bottom, with assembled 9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm	Microtiter-Plate, PP, 96 Positions (RITTER), filled with 0.1ml MTP-Micro-Insert, 15.5 x 5.7mm, clear glass, flat bottom, with assembled 9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm	
	08 05 0890 + 08 14 0889	08 05 0894 + 08 14 0910	08 05 0944 + 08 14 0876	
Micro-Insert + Seal	08 14 0889	08 14 0910	08 14 0876	
	0.35ml DW-Micro-Insert, 42.5 x 6mm, clear glass, 17mm top, with assembled 9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm	1ml SQW-Micro-Insert, 45.9 x 7.6mm, clear glass, round bottom, with assembled 9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm	0.1ml MTP-Micro-Insert, 15.5 x 5.7mm, clear glass, flat bottom, with assembled 9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm	
	08 09 0888 + 09 15 0763	08 09 0909 + 09 15 0763	08 09 0875 + 09 15 0763	
	Micro-Insert	08 09 0888	08 09 0909	08 09 0875
	0.35ml DW-Micro-Insert, 42.5 x 6mm, clear glass, 17mm top	1ml SQW-Micro-Insert, 45.9 x 7.6mm, clear glass, round bottom	0.1ml MTP-Micro-Insert, 15.5 x 5.7mm, clear glass, flat bottom	
Seal	09 15 0763	09 15 0763	09 15 0763	
	9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm	9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm	9mm PE Cap red, 9 x 5.9mm, 4mm centre hole, Silicone white/PTFE red, with slit, 45° shore A, 1.9mm	
Block	08 05 0890	08 05 0894	08 05 0944	
	Deep Well Block „ziplate“, Polypropylene, 96 Positions (RITTER)	Square Well Block „ziplate“, Polypropylene, 96 Positions (RITTER)	Microtiter-Plate, Polypropylene, 96 Positions (RITTER)	

HTS



General Consumables



ProFill™ HPLC Syringe Filter

25 16 0346	25 16 0347	25 16 0348	25 16 0349	25 16 0350	25 16 0351
ProFill™ 25mm HPLC Syringe Filter, PTFE, green, 0.20µm	ProFill™ 25mm HPLC Syringe Filter, PTFE, natural, 0.45µm	ProFill™ 25mm HPLC Syringe Filter, Regenerated Cellulose (RC), blue, 0.20µm	ProFill™ 25mm HPLC Syringe Filter, Regenerated Cellulose (RC), yellow, 0.45µm	ProFill™ 25mm HPLC Syringe Filter, Nylon (PA), bright blue, 0.20µm	ProFill™ 25mm HPLC Syringe Filter, Nylon (PA), bright green, 0.45µm
100 pcs. per PE-Bag add. packed in a blue PP-Box	100 pcs. per PE-Bag add. packed in a blue PP-Box	100 pcs. per PE-Bag add. packed in a blue PP-Box	100 pcs. per PE-Bag add. packed in a blue PP-Box	100 pcs. per PE-Bag add. packed in a blue PP-Box	100 pcs. per PE-Bag add. packed in a blue PP-Box

ProFill™ PLUS HPLC Syringe Filter

25 16 1546	25 16 1547	25 16 1548	25 16 1549	25 16 1550	25 16 1551	25 16 1552	25 16 1553
ProFill™ PLUS 25mm HPLC Syringe Filter, Glass Fibre Prefilter/ PTFE, 0.2µm	ProFill™ PLUS 25mm HPLC Syringe Filter, Glass Fibre Prefilter/ PTFE, 0.45µm	ProFill™ PLUS 25mm HPLC Syringe Filter, Glass Fibre Prefilter/ Regenerated Cellulose (RC) 0.2µm	ProFill™ PLUS 25mm HPLC Syringe Filter, Glass Fibre Prefilter/ Regenerated Cellulose (RC) 0.45µm	ProFill™ PLUS 25mm HPLC Syringe Filter, Glass Fibre Prefilter/ Nylon (PA), 0.2 µm	ProFill™ PLUS 25mm HPLC Syringe Filter, Glass Fibre Prefilter/ Nylon (PA), 0.45µm	ProFill™ PLUS 25mm HPLC Syringe Filter, Glass Fibre Prefilter/ PVD, 0.2µm	ProFill™ PLUS 25mm HPLC Syringe Filter, Glass Fibre Prefilter/ PVD, 0.45µm
Packaging: 100 pcs. per PE-Bag, add. packed in a blue PP-Box							

GC Injection Port Septa

07 18 0935	09 18 0936	10 18 0937	11 18 0938	12 18 0939	17 18 0940
Shimadzu Plug, transparent	9.5mm Universal HT Injection Port Septa, transparent	10mm Universal HT Injection Port Septa, transparent	11mm Universal HT Injection Port Septa, transparent	12.5mm Universal HT Injection Port Septa, transparent	17mm Universal HT Injection Port Septa, transparent
25 pcs. in an amber Screw Neck Vial	25 pcs. in an amber Screw Neck Vial	25 pcs. in an amber Screw Neck Vial	25 pcs. in an amber Screw Neck Vial	25 pcs. in an amber Screw Neck Vial	25 pcs. in an amber Screw Neck Vial
Shimadzu, all models	Agilent (HP), 5700/5880 Series Varian, Injector Type: Packed Columns Varian (CP), all models Tracor, 350, 540 Gow-Mac, all models Finnigan, 9001, OCO™ Antek Unicam, 4600	Agilent (HP), 5890/6890 Series 5700/5880 Series Varian, Injector Type: Packed Columns Injector Type: Split/Splitless	Agilent (HP), 5890/6890 Series 5880A Series Varian, 3300, 3400, 3500, 3600, 3700, Vista (Split/Splitless) Perkin Elmer, Sigma Series, 900, 990 8000 Series Autosys	Tracor, 220, 222	ThermoQuest, Trace Fisons/Carlo Erba 8000 Series

General Consumables

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