

The logo features a series of concentric, curved lines in a light orange-brown color, resembling a stylized 'C' or a chromatogram peak.

ChromGC

AVAILABLE IN ANY PHASE YOU REQUIRE



Dear Customer,

Thank you for considering CHROM4 as your GC product supplier.

A trusted source.

Since our distributor owned group, CHROM4, started in 2011, we have focused on consumables for the chromatography industry.

After introducing Sample Handling (vials, caps, inserts, insert vials, as well as 96-well plates and their respective cap mats) we introduced our LC column line of products with respective LC consumables. The Quattro, silica based, column line has been well received and shortly our Isosceles fused core columns will be launched into the market.

We have now directed our expertise to develop a GC fused silica column and accessory line, to provide you with a complete LC/GC column and accessory program. Quality is our first and primary focus.

These fused silica columns are capable of performing a wide variety of separations on the most difficult samples and reproducibility is of course guaranteed. Our ChromGC phases (as you can see in the table of contents) are inert, thermally stable and very efficient.

The wide variety of phases helps you choose the right polarity for your analytes. We produce and test each column individually to guarantee our column-to-column reproducibility.

We have also listed an attractive line of Agilent™ equivalent and other GC instrument manufacturer's accessories. These aftermarket products are guaranteed to work and will bring savings to your consumable budget.

This GC section is presented to you as a reference tool for your research, routine analyses and production.

As our customer, you deserve excellent service, starting from the right phase for your application through swift and reliable delivery.

We welcome you to contact your distributor whenever you need sound advice for technical help, or to discuss the phase that best accomodates your needs.

ChromGC, better chemistry for better separation.



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Products listed under the companies below are compatible with their instrumentation.

Agilent™ (Varian), Beckman, Bruker, CTC/Leap, Perkin Elmer, Shimadzu, Waters.

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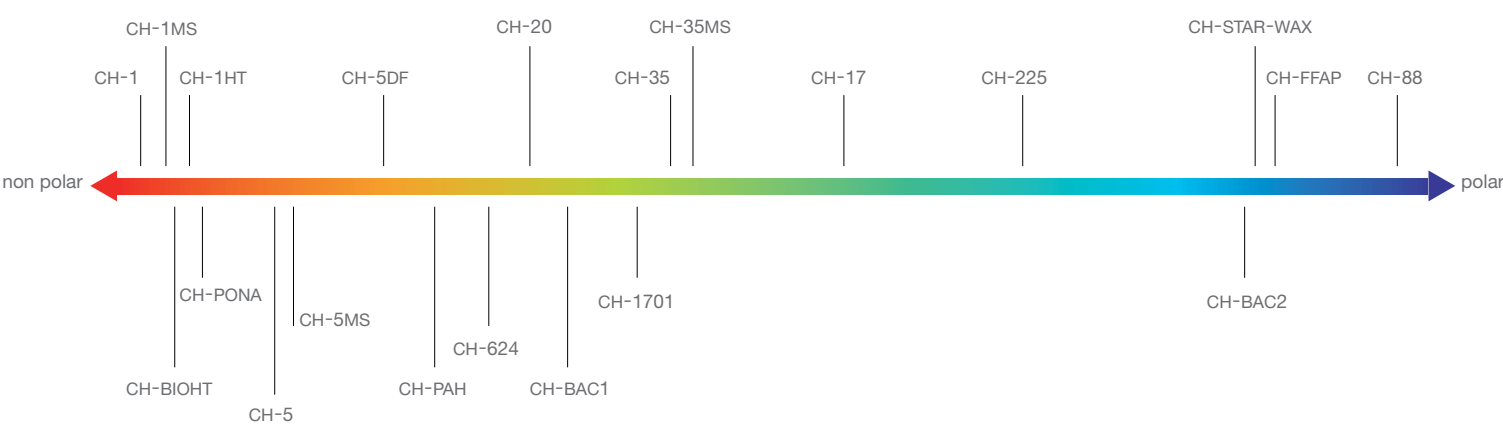
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Common Phases Polarity Quick View



GC Columns Dimensions Available

FAST			
I.D.	0.10mm	0.15mm	0.18mm
Length	from 2 to 15m	from 2.5 to 30m	from 5 to 60m
Film Thickness*	from 0.05 to 1.00µm	from 0.05 to 1.40µm	from 0.05 to 1.50µm
CONVENTIONAL			
I.D.	0.25mm	0.32mm	
Length	from 5 to 100m	from 5 to 100m	
Film Thickness*	from 0.05 to 3.00µm	from 0.05 to 5.00µm	
WIDE BORE			
I.D.	0.45mm	0.53mm	
Length	from 10 to 75m	from 10 to 75m	
Film Thickness*	up to 5.00µm	up to 5.00µm	

* Maximum film thickness depends also on the stationary phase type.

Chiral columns available in various phases.
Please visit www.chrom4.com for information or contact your local distributor.



CH-1 • Equivalent to USP G1, G2, G9, G38
100% methyl polysiloxane

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.10	10	0.10	CH1-101010	41101	127-1012	-60to325 / 350
		0.40	CH1-101040	41103	127-1013	-60to325 / 350
	20	0.10	CH1-201010	41102	127-1022	-60to325 / 350
		0.40	CH1-201040	41104	127-1023	-60to325 / 350
0.18	10	0.18	CH1-101818	40101	121-1012	-60to325 / 350
		0.40	CH1-101840	40110	121-1013	-60to325 / 350
	20	0.18	CH1-201818	40102	121-1022	-60to325 / 350
		0.40	CH1-201840	40111	121-1023	-60to325 / 350
0.25	15	0.10	CH1-152510	10105	122-1011	-60to325 / 350
		0.25	CH1-152525	10120	122-1012	-60to325 / 350
	25	1.00	CH1-1525100	10150	122-1013	-60to325 / 350
		0.25	CH1-252525	-	122-1022	-60to325 / 350
0.32	30	0.10	CH1-302510	10108	122-1031	-60to325 / 350
		0.25	CH1-302525	10123	122-1032	-60to325 / 350
	15	0.10	CH1-153210	10106	123-1011	-60to325 / 350
		0.25	CH1-153225	10121	123-1012	-60to325 / 350
0.45	30	1.27	CH1-3045127	-	124-1032	-60to300 / 320
		2.55	CH1-3045255	-	124-1034	-60to260 / 300

CH-1 (continued)

(mm)	(m)	(µm)	Part No.	Restek	J&W No.	iso/prog. (°C)
0.53	10	2.65	CH1-1053265	-	125-10HB	-60to260 / 300
		5.00	CH1-1053500	-	125-10H5	-60to280 / 300
	15	0.15	CH1-155315	-	125-1011	-60to340 / 360
		0.50	CH1-155350	18037	125-1017	-60to300 / 320
0.18	20	1.00	CH1-1553100	18052	125-101J	-60to300 / 320
		1.50	CH1-1553150	18067	125-1012	-60to300 / 320
	25	3.00	CH1-1553300	10182	125-1014	-60to260 / 300
		5.00	CH1-1553500	10177	125-1015	-60to280 / 300
0.25	30	5.00	CH1-2553500	-	125-1025	-60to280 / 300
		0.50	CH1-305350	18040	125-1037	-60to300 / 320
	60	1.00	CH1-3053100	18055	125-103J	-60to300 / 320
		1.50	CH1-3053150	18070	125-1032	-60to300 / 320
0.32	15	2.65	CH1-3053265	-	125-103B	-60to260 / 300
		3.00	CH1-3053300	10185	125-1034	-60to260 / 300
	25	5.00	CH1-3053500	10179	125-1035	-60to280 / 300
		1.00	CH1-6053100	18058	125-106J	-60to300 / 320
0.45	30	1.50	CH1-6053150	18073	125-1062	-60to300 / 320
		3.00	CH1-6053300	10188	125-1064	-60to260 / 300
	60	5.00	CH1-6053500	10183	125-1065	-60to280 / 300



CH-1MS • Equivalent to USP G2
100% Dimethylpolysiloxane

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.10	10	0.40	CH1MS-101040	-	127-0113	-60to340 / 360
	20	0.40	CH1MS-201040	-	127-0123	-60to340 / 360
0.18	10	0.18	CH1MS-101818	-	-	-60to340 / 360
	20	0.18	CH1MS-201818	-	-	-60to340 / 360
0.20	12	0.33	CH1MS-122033	-	128-0122	-60to340 / 360
	25	0.33	CH1MS-252033	-	128-0122	-60to340 / 360
0.25	15	0.25	CH1MS-152525	11620	122-0112	-60to340 / 360
		0.10	CH1MS-302510	11608	122-0131	-60to340 / 360
	30	0.25	CH1MS-302525	11623	122-0132	-60to340 / 360
		0.25	CH1MS-602525	-	122-0162	-60to340 / 360
0.32	15	0.25	CH1MS-153225	11621	123-0112	-60to340 / 360
		0.10	CH1MS-303210	11609	123-0131	-60to340 / 360
	30	0.25	CH1MS-303225	11624	123-0132	-60to340 / 360
		0.25	CH1MS-603225	-	123-0162	-60to340 / 360



CH-1HT
100% methyl polysiloxane for high temperature

(mm)	(m)	(µm)	Part No.	Restek	J&W No.	iso/prog. (°C)
0.25	15	0.10	CH1HT-152510	-	122-1111	-60to380
	30	0.10	CH1HT-02510	-	122-1131	-60to380
0.32	15	0.10	CH1HT-153210	-	123-1111	-60to380
	30	0.10	CH1HT-303210	-	123-1131	-60to380



CH-5 • Equivalent to USP G27, G36, G41
(5%-Phenyl) - methylpolysiloxane

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)	
0.10	10	0.10	CH5-101010	41201	127-5012	-60to325 / 350	
		0.17	CH5-101017		127-501E	-60to325 / 350	
		0.40	CH5-101040	41203	127-5013	-60to325 / 350	
	20	0.10	CH5-201010	41202	127-5022	-60to325 / 350	
		0.40	CH5-201040	41204	127-5023	-60to325 / 350	
0.18	10	0.18	CH5-101818	-	121-5012	-60to325 / 350	
		0.40	CH5-101840	40210	121-5013	-60to325 / 350	
	20	0.18	CH5-201818	-	121-5022	-60to325 / 350	
		0.40	CH5-201840	40211	121-5023	-60to325 / 350	
	0.20	12	0.33	CH5-122033	-	128-5012	-60to325 / 350
15		0.20	CH5-152020	-	128-50H7	-60to325 / 350	
25		0.33	CH5-252033	-	128-5022	-60to325 / 350	
0.25	15	0.10	CH5-152510	10205	122-5011	-60to325 / 350	
		0.25	CH5-152525	10220	122-5012	-60to325 / 350	
		0.50	CH5-152550	12335	122-501E	-60to325 / 350	
		1.00	CH5-1525100	10250	122-5013	-60to325 / 350	
	25	0.25	CH5-252525	-	122-5022	-60to325 / 350	
		30	0.10	CH5-302510	10208	122-5031	-60to325 / 350
			0.25	CH5-302525	10223	122-5032	-60to325 / 350
			0.50	CH5-302550	12338	122-503E	-60to325 / 350
	1.00		CH5-3025100	10253	122-5033	-60to325 / 350	
	50	0.25	CH5-502525	-	122-5052	-60to325 / 350	
	60	0.10	CH5-602510	10211	122-5061	-60to325 / 350	
		0.25	CH5-602525	10226	122-5062	-60to325 / 350	
		0.50	CH5-602550	10241	122-506E	-60to325 / 350	
		1.00	CH5-6025100	10256	122-5063	-60to325 / 350	
	0.32	15	0.10	CH5-602510	10206	123-5011	-60to325 / 350
			0.25	CH5-153225	10221	123-5012	-60to325 / 350
		25	1.00	CH5-1532100	-	123-5013	-60to325 / 350
0.52			CH5-253252	-	123-5026	-60to325 / 350	
30		0.10	CH5-303210	10209	123-5031	-60to325 / 350	
		0.25	CH5-303225	10224	123-5032	-60to325 / 350	
		0.50	CH5-303250	10239	123-503E	-60to325 / 350	
		1.00	CH5-3032100	10254	123-5033	-60to325 / 350	
50		1.00	CH5-5032100	-	123-5053	-60to325 / 350	
60		0.25	CH5-603225	10227	123-5062	-60to325 / 350	
		1.00	CH5-6032100	10257	123-5063	-60to325 / 350	
0.45	15	1.27	CH5-1545127	-	124-5012	-60to300 / 320	
	30	1.27	CH5-3045127	-	124-5032	-60to300 / 320	
0.53	10	2.65	CH5-1053265	-	125-50HB	-60to300 / 320	
	15	0.25	CH5-155325	10222	125-501K	-60to300 / 320	
		0.50	CH5-155350	10237	125-5017	-60to300 / 320	
		1.00	CH5-1553100	12352	125-501J	-60to300 / 320	
		1.50	CH5-1553150	10267	125-5012	-60to300 / 320	
	30	0.25	CH5-305325	10225	125-503K	-60to300 / 320	
		0.50	CH5-305350	10240	125-5037	-60to300 / 320	
		0.88	CH5-305388	-	125-503D	-60to300 / 320	
		1.00	CH5-3053100	12355	125-503J	-60to300 / 320	
		1.50	CH5-3053150	10270	125-5032	-60to300 / 320	
		3.00	CH5-3053300	10285	125-5034	-60to280 / 300	
		5.00	CH5-3053500	10279	125-5035	-60to280 / 300	
	60	1.50	CH5-6053150	10273	125-5062	-60to300 / 320	
		5.00	CH5-6053500	10283	125-5065	-60to260 / 280	



CH-5MS • Equivalent to USP G27
(5%-Phenyl) - methylpolysiloxane

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.18	20	0.18	CH5MS-201818	-	121-5522	-60to325 / 350
	40	0.18	CH5MS-401818	-	121-5542	-60to325 / 350
0.20	12	0.33	CH5MS-122033	-	128-5512	-60to325 / 350
	25	0.33	CH5MS-252033	-	128-5522	-60to325 / 350
	50	0.33	CH5MS-502033	-	128-5552	-60to325 / 350
0.25	15	0.10	CH5MS-152510	12705	122-5511	-60to325 / 350
		0.25	CH5MS-152525	12720	122-5512	-60to325 / 350
		0.50	CH5MS-152550	12735	122-5516	-60to325 / 350
		1.00	CH5MS-1525100	12750	122-5513	-60to325 / 350
	25	0.25	CH5MS-252525	-	122-5522	-60to325 / 350
		0.10	CH5MS-302510	12708	122-5531	-60to325 / 350
		0.25	CH5MS-302525	12723	122-5532	-60to325 / 350
		0.50	CH5MS-302550	12738	122-5536	-60to325 / 350
		1.00	CH5MS-3025100	12753	122-5533	-60to325 / 350
	30	0.25	CH5MS-502525	-	122-5552	-60to325 / 350
		0.10	CH5MS-602510	-	122-5561	-60to325 / 350
		0.25	CH5MS-602525	-	122-5562	-60to325 / 350
0.32	15	0.10	CH5MS-153210	12706	123-5511	-60to325 / 350
		0.25	CH5MS-153225	12721	123-5512	-60to325 / 350
		1.00	CH5MS-1532100	12751	123-5513	-60to325 / 350
		0.52	CH5MS-253252	-	123-5526	-60to325 / 350
	30	0.10	CH5MS-303210	-	123-5531	-60to325 / 350
		0.25	CH5MS-303225	12724	123-5532	-60to325 / 350
		0.50	CH5MS-303250	-	123-5536	-60to325 / 350
		1.00	CH5MS-3032100	12754	123-5533	-60to325 / 350
	60	0.10	CH5MS-603210	-	123-5561	-60to325 / 350
		0.25	CH5MS-603225	-	123-5562	-60to325 / 350
		1.00	CH5MS-6032100	-	123-5563	-60to325 / 350
		1.50	CH5MS-1553150	12767	125-5512	-60to300 / 320
0.53	30	1.00	CH5MS-3053100	12755	125-553J	-60to300 / 320
		1.50	CH5MS-3053150	12770	125-5532	-60to300 / 320



CH-5DF (Dioxin Furan)
5% silphenylen

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.25	60	0.15	CH5DF-602515	-	122-2461	350 / 360
		0.25	CH5DF-602525	-	122-2462	350 / 360



CH-PONA
100%- Dimethylpolysiloxane

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.20	50	0.50	CHPONA-502050	-	128-1056	-60to325 / 350
0.25	100	0.50	CHPONA-002550	10195	122-10A6	-60to325 / 350



CH-BIO-HT
5% phenyl

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.32	10	0.10	CHBIOHT-103210	10292	-	360 / 380
	15	0.10	CHBIOHT-153210	10293	-	360 / 380



CH-PAH
8-10% phenyl

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.18	40	0.07	CHPAH-40187	49316	-	340 / 360
0.25	30	0.10	CHPAH-302510	49318	-	340 / 360
	60	0.10	CHPAH-602510	49317	-	340 / 360



CH-CARBOWAX-20M
Polyethylene Glycol • Equivalent to USP G14, G15, G16)

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.25	30	0.25	CH20-302525	-	112-2032	60to230 / 250
0.32	30	0.25	CH20-303225	-	113-2032	60to230 / 250



CH-BAC1
Ethanol/Acetone

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.32	30	1.80	CHBAC1-3032180	-	123-9134	20to260 / 280
0.53	30	3.00	CHBAC1-3053300	-	125-9134	20to260 / 280



CH-35 • Equivalent to USP G42
(35%-Phenyl) - methylpolysiloxane

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.25	30	0.25	CH35-302525	-	122-1932	40to300 / 320
0.32	30	0.25	CH35-303225	-	123-1932	40to300 / 320
		0.50	CH35-303250	-	123-1933	40to300 / 320
0.53	30	0.50	CH35-305350	-	125-1937	40to280 / 300
		1.00	CH35-3053100	-	125-1932	40to300 / 320



CH-35MS • Equivalent to USP G42
(35%-Phenyl) - methylpolysiloxane

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.25	15	0.25	CH35MS-152525	-	122-3812	50to340 / 360
	30	0.25	CH35MS-302525	-	122-3832	50to340 / 360
	60	0.25	CH35MS-602525	-	122-3862	50to340 / 360
0.32	30	0.25	CH35MS-303225	-	123-3832	50to340 / 360
		0.50	CH35MS-305350	-	125-3837	50to320 / 340
0.53	30	1.00	CH35MS-3053100	-	125-3832	50to320 / 340

For EPA Methods
(Drinking & Waste Water),
please visit www.chrom4.com

CH-624

ChromGC

CH-624 • Equivalent to USP G43
(6% cyanopropyl-phenyl) - methylpolysiloxane

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.18	20	1.00	CH624-2018100	40924	121-1324	-20to260
	30	1.40	CH624-3025140	10968	122-1334	-20to260
0.25	60	1.40	CH624-6025140	10969	122-1364	-20to260
	30	1.80	CH624-3032180	10970	123-1334	-20to260
0.32	60	1.80	CH624-6032180	10972	123-1364	-20to260
	30	2.55	CH624-3045255	-	124-1334	-20to260
0.45	75	2.55	CH624-7545255	-	124-1374	-20to260
	30	3.00	CH624-3053300	10971	125-1334	-20to260
0.53	60	3.00	CH624-6053300	10973	125-1364	-20to260
	75	3.00	CH624-7553300	10974	125-1374	-20to260

CH-17

ChromGC

CH-17 • Equivalent to USP G3, G17
(50%-Phenyl) - methylpolysiloxane

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.10	10	0.10	CH17-101010	-	127-1712	40to280 / 300
		0.20	CH17-201020	-	127-1713	40to280 / 300
	20	0.10	CH17-201010	-	127-1722	40to280 / 300
0.18	20	0.18	CH17-201818	-	121-1722	40to280 / 300
		0.30	CH17-201830	-	121-1723	40to280 / 300
		0.15	CH17-152515	-	122-1711	40to280 / 300
0.25	15	0.25	CH17-152525	10520	122-1712	40to280 / 300
		0.50	CH17-152550	10535	122-1713	40to280 / 300
		0.15	CH17-302515	-	122-1731	40to280 / 300
	30	0.25	CH17-302525	10523	122-1732	40to280 / 300
		0.50	CH17-302550	10538	122-1733	40to280 / 300
		0.25	CH17-602525	-	122-1762	40to280 / 300
	0.32	0.15	CH17-153215	-	123-1711	40to280 / 300
		0.25	CH17-153225	10521	123-1712	40to280 / 300
		0.50	CH17-153250	10536	123-1713	40to280 / 300
		0.15	CH17-303215	-	123-1731	40to280 / 300
		0.25	CH17-303225	-	123-1732	40to280 / 300
		0.50	CH17-303250	10539	123-1733	40to280 / 300
0.53	60	0.25	CH17-603225	-	123-1762	40to280 / 300
		1.00	CH17-1553100	10552	125-1712	40to260 / 280
		1.00	CH17-3053100	10555	125-1732	40to260 / 280
	30	1.50	CH17-6053150	-	125-1733	40to260 / 280
		1.00	CH17-6053100	10558	125-1762	40to260 / 280
		1.00	CH17-3053100	10558	125-1762	40to260 / 280
	15	1.00	CH17-1553100	10552	125-1712	40to260 / 280
		1.00	CH17-3053100	10555	125-1732	40to260 / 280
		1.50	CH17-6053150	-	125-1733	40to260 / 280

CH-1701

ChromGC

CH-1701 • Equivalent to USP G46
(14%-Cyanopropyl-phenyl) - methylpolysiloxane

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.10	20	0.10	CH1701-201010	42202	127-0722	-20to280
		0.40	CH1701-201040	-	127-0723	-20to280
0.18	10	0.40	CH1701-101840	-	121-0713	-20to280
		0.25	CH1701-152525	-	122-0712	-20to280
0.25	15	1.00	CH1701-1525100	12050	122-0713	-20to280
		0.15	CH1701-302515	-	122-0731	-20to280
		0.25	CH1701-302525	12023-600	122-0732	-20to280
	30	1.00	CH1701-3025100	12053	122-0733	-20to280
		0.15	CH1701-602515	-	122-0761	-20to280
		0.25	CH1701-602525	12026	122-0762	-20to280
		1.00	CH1701-6025100	12056	122-0763	-20to280
	60	0.25	CH1701-153225	12021	123-0712	-20to280
		1.00	CH1701-1532100	12051	123-0713	-20to280
0.32	15	0.15	CH1701-303215	-	123-0731	-20to280
		0.25	CH1701-303225	12024	123-0732	-20to280
		1.00	CH1701-3032100	12054	123-0733	-20to280
	30	0.25	CH1701-3032100	12054	123-0733	-20to280
		0.25	CH1701-303225	12024	123-0732	-20to280
		1.00	CH1701-3032100	12054	123-0733	-20to280
	60	0.25	CH1701-603225	12027	123-0762	-20to280
		1.00	CH1701-6032100	12057	123-0763	-20to280
		1.00	CH1701-3032100	12057	123-0763	-20to280
0.53	15	1.00	CH1701-1553100	12052	125-0712	-20to280
		0.50	CH1701-305350	12040	125-0737	-20to280
	30	1.00	CH1701-3053100	12055	125-0732	-20to280

CH-225

ChromGC

CH-225 • Equivalent to USP G7, G19
(50%-Cyanopropyl-phenyl) - methylpolysiloxane

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.10	20	0.10	CH225-201010	-	127-2222	45to220 / 240
0.18	20	0.20	CH225-201820	-	121-2223	45to220 / 240
0.25	15	0.25	CH225-152525	-	122-2212	45to220 / 240
		0.15	CH225-302515	-	122-2231	45to220 / 240
		0.25	CH225-302525	-	122-2232	45to220 / 240
0.32	30	0.25	CH225-303232	-	123-2232	45to220 / 240
0.53	15	1.00	CH225-1553100	-	125-2212	40to200 / 220
	30	1.00	CH225-3053100	-	125-2232	40to200 / 220

CH-BAC2

ChromGC

CH-BAC2
Ethanol/Acetone

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.32	30	1.20	CHBAC2-3032120	-	123-9234	20to260 / 280
0.53	30	2.00	CHBAC2-3053200	-	125-9234	20to260 / 280

CH-STAR-WAX

ChromGC

CH-STAR-WAX • Equivalent to USP G14, G15, G16
Polyethylene Glycol

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.10	10	0.10	CHSWAX-101010	-	127-7012	20to250 / 270
		0.20	CHSWAX-101020	-	127-7013	20to250 / 270
	20	0.10	CHSWAX-201010	-	127-7022	20to250 / 270
0.18	10	0.20	CHSWAX-201020	-	127-7023	20to250 / 270
		0.18	CHSWAX-101818	-	121-7012	20to250 / 270
		0.18	CHSWAX-201818	-	121-7022	20to250 / 270
	20	0.30	CHSWAX-201830	-	121-7023	20to250 / 270
		0.30	CHSWAX-401830	-	121-7043	20to250 / 270
		0.25	CHSWAX-152525	-	122-7012	20to250 / 270
0.25	15	0.50	CHSWAX-152550	-	122-7013	20to250 / 270
		0.15	CHSWAX-302515	-	122-7031	20to250 / 270
		0.25	CHSWAX-302525	10673	122-7032	20to250 / 270
	30	0.50	CHSWAX-302550	-	122-7033	20to250 / 270
		0.15	CHSWAX-602515	-	122-7061	20to250 / 270
		0.25	CHSWAX-602525	-	122-7062	20to250 / 270
	60	0.50	CHSWAX-602550	-	122-7063	20to250 / 270
		0.25	CHSWAX-153225	-	123-7012	20to250 / 270
		0.50	CHSWAX-153250	-	123-7013	20to250 / 270
0.32	15	0.15	CHSWAX-303215	-	123-7031	20to250 / 270
		0.25	CHSWAX-303225	10674	123-7032	20to250 / 270
		0.50	CHSWAX-303250	-	123-7033	20to250 / 270
	30	0.25	CHSWAX-603225	-	123-7062	20to250 / 270
		0.50	CHSWAX-603250	-	123-7063	20to250 / 270
		0.25	CHSWAX-304585	-	124-7032	20to250 / 270
0.45	15	0.50	CHSWAX-154550	-	125-7017	20to250 / 270
		1.00	CHSWAX-1545100	-	125-7012	20to250 / 270
		0.25	CHSWAX-305325	-	125-7031	20to250 / 270
0.53	30	0.50	CHSWAX-305350	-	125-7037	20to250 / 270
		1.00	CHSWAX-3053100	-	125-7032	20to250 / 270
		1.00	CHSWAX-6053100	-	125-7062	20to250 / 270

GC Septa

- :: Lowest bleed of any septa
- :: Soft and resealable
- :: Molded for dimensional consistency giving more injections per septum, thereby costing less

Precision molded GC Septa made from 100% Pure Premium Silicone Rubber. Our GC septum delivers the ultimate in low bleed properties and longevity. Our unique formulation and conditioning process is what separates our GC Septa from the rest.

Manufacturer	Size	Quantity	Part Number
OVSC	9.5mm	50	CH-237705
OVSC	11mm	50	CH-237715
Chrom4	11mm	50	CHR-HD-A1544
Chrom4	9.5mm	50	CHR-HD-A1486
Chrom4	10mm	50	CHR-HD-A1405



CH-FFAP

ChromGC

CH-FFAP • Equivalent to USP G25, G35, G39
Nitroterephthalic Acid Modified Polyethylene Glycol

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.25	15	0.25	CHFFAP-152525	11020	122-3212	40to250
		0.25	CHFFAP-302525	11023	122-3232	40to250
	30	0.25	CHFFAP-302550	11038	122-3233	40to250
0.32	15	0.25	CHFFAP-153225	11021	123-3212	40to250
		0.25	CHFFAP-303225	11024	123-3232	40to250
		0.50	CHFFAP-303250	11039	123-3233	40to250
	30	1.00	CHFFAP-3032100	11054	123-3234	40to250
		0.50	CHFFAP-503250	-	123-3253	40to250
		0.25	CHFFAP-603225	11027	123-3262	40to250
	60	0.50	CHFFAP-603250	11042	123-3263	40to250
		1.00	CHFFAP-6032100	11057	123-3264	40to250
		1.00	CHFFAP-6032100	11057	123-3264	40to250
0.45	30	0.85	CHFFAP-304585	-	124-3232	40to250
0.53	15	0.50	CHFFAP-155350	11037	125-3217	40to250
		1.00	CHFFAP-1553100	11052	125-3212	40to250
	30	0.25	CHFFAP-305325	11025	125-3231	40to250
		0.50	CHFFAP-305350	11040	125-3237	40to250
		1.00	CHFFAP-3053100	11055	125-3232	40to250
		1.50	CHFFAP-3053150	-	125-3233	40to250

CH-88

ChromGC

CH-88 • Equivalent to USP G5, G8, G48
Biscyanopropyl polysiloxane

(mm)	(m)	(µm)	Part No.	Restek	J&W	iso/prog. (°C)
0.20	50	0.20	CH88-502020	-		60to250
0.25	50	0.20	CH88-502520	-		60to250
	60	0.20	CH88-602520	-		60to250
	100	0.20	CH88-1002520	13199		60to250

Inlet Liners

- :: Deactivated for maximum inertness
- :: Meets or exceeds original manufacturers' specifications
- :: Use liners packed with fused silica wool for the HP 7673 Autosampler

Description	ID (mm)	OD (mm)	Length (mm)	Glass Type	Deactivated	Agilent™ P/N	Part Number
Deactivated Injection Port Liners							
Tapered Liner - 1 End	4.0	6.45	78.5	Borosilicate	Yes	5181-3316	IS-4209
Tapered Liner - 1 End w/wool*	4.0	6.45	78.5	Borosilicate	Yes	5062-3587	IS-4210
Tapered Liner - Both Ends	4.0	6.45	78.5	Borosilicate	Yes	5181-3315	IS-4211
Split/Splitless Liner w/wool*	4.0	6.3	78.5	Borosilicate	Yes	19251-60540	IS-4212
Cup Split Liner+	4.0	6.3	78.5	Borosilicate	No	18740-80190	IS-4202
Direct Liner	1.5	6.45	78.5	Borosilicate	Yes	18740-80200	IS-4215
Direct Connect Dual Taper, Bottom Hole	4.0	6.3	78.5	Borosilicate	Yes	G1544-80700	IS-4217
Split only, Tapered, Low Pressure Drop	4.0	6.3	78.5	Borosilicate	Yes	5183-4647	IS-4220
GP Split, 1 Taper Liner w/wool	4.0	6.3	78.5	Borosilicate	Yes	5183-4711	IS-4221

+ The Cup Split Liner (IS-4202) contain small amounts of packing (10% CH-1 on 80/100 Chromosorb-WHP) retained by silanized glasswool.
* Containing deactivated quartz wool packing to ensure vaporization of your sample before reaching the column entrance. The liner is made of borosilicate glass.
Liners for other brands available. See www.chrom4.com for details.

Ferrules (10 per pack)

Ferrule Size	Tubing Size	Style	100% Graphite	Agilent™ Part Number	85% Polyimide 15% Graphite	Agilent™ Part Number
Agilent™ Ferrules						
1/16"	0.4mm	-	OV-GF-04	500-2004	OV-MS-04	5062-3508
1/16"	0.4mm	HP/Agilent Short	OV-GF-04-HP	500-2114	OV-MS-04-HP	5181-3323
1/16"	0.5mm	-	OV-GF-05	-	OV-MS-05	5062-3506
1/16"	0.5mm	HP/Agilent Short	OV-GF-05-HP	5080-8853	OV-MS-05-HP	5062-3514
1/16"	0.8mm	-	OV-GF-08	500-2008	OV-MS-08	5062-3538
1/16"	0.8mm	HP/Agilent Short	OV-GF-08-HP	500-2118	OV-MS-08-HP	5062-3512
1/16"	1.00mm	-	OV-GF-10	500-2010	OV-MS-10	-
1/16"	1.0mm	HP/Agilent Short	OV-GF-10-HP	5080-8773	-	-
1/16"	1.2mm	-	OV-GF-12	500-2012	OV-MS-12	-
1/16"	1/16"	-	OV-GF-01	0100-1326	OV-MS-01	-
1/8"	1/8"	-	OV-GF-02	0100-1325	OV-MS-02	-
1/4"	1/4"	-	OV-GF-03	0100-1324	OV-MS-03	-
1/8"	1/16"	-	OV-GF-68	0100-1336	OV-MS-68	-
1/4"	1/16"	-	OV-GF-64	0100-1335	OV-MS-64	-
1/4"	1/8"	-	OV-GF-81	0100-1334	OV-MS-81	-
1/16"	0.4mm	2-Hole	OV-GF-14	-	OV-MS-14	5062-3580
1/16"	0.5mm	2-Hole	OV-GF-25	-	OV-MS-15	5062-3581
1/16"	0.5mm	No-Hole	OV-GF-01-NH	-	OV-MS-01-NH	5181-3308

Ferrules (10 per pack)

Ferrule Size	Tubing Size	60% Polyimide 40% Graphite	100% Polyimide	100% Teflon
Capillary Ferrules				
1/16"	0.4mm	OV-GH-04	OV-HF-04	OV-TF-04
1/16"	0.4mm	OV-GH-04-HP	OV-HF-04-HP	-
1/16"	0.5mm	OV-GH-05	OV-HF-05	OV-TF-05
1/16"	0.5mm	OV-GH-05-HP	OV-HF-05-HP	-
1/16"	0.8mm	OV-GH-08	OV-HF-08	OV-TF-08
1/16"	0.8mm	OV-GH-08-HP	OV-HF-08-HP	-
1/16"	1.0mm	OV-GH-10	OV-HF-10	OV-TF-10
1/16"	1.2mm	OV-GH-12	OV-HF-12	OV-TF-12
Straight Ferrules				
1/16"	1/16"	OV-GH-01	OV-HF-01	OV-TF-01
1/8"	1/8"	OV-GH-02	OV-HF-02	OV-TF-02
3/16"	3/16"	-	-	OV-TF-316
1/4"	1/4"	OV-GH-03	OV-HF-03	OV-TF-03
3/8"	3/8"	-	-	OV-TF-138
1/2"	1/2"	-	-	OV-TF-13



Electron Multipliers

Instrument	Analyzer Type	Technique	Part Number
5971, 5972, 5973, 5975, LC/MSD	Quadrupole	GC-MS	DT-2300A

Press-Fit Connectors

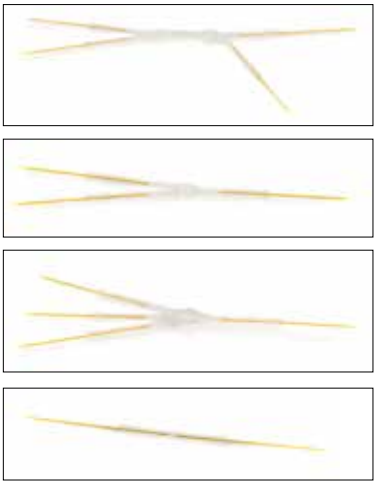
- :: Easy to handle
- :: A simple pressure to assure a perfect seal
- :: Easy to install

ChromGC Press-Fit connectors allow you to simply connect, with a tight seal, different columns or Retention Gaps together in many ways. Our Press-Fit connectors are custom-made to fit any tubing size and to ensure the minimal dead volume.

Press-Fit Union linear connectors, ideal to connect two columns or a Retention Gap to the analytical column.

Press-Fit “Y” three way connectors, ideal to connect two analytical columns to a single injector port or split the exit of one column to a dual detector GC system. Many other configurations are possible using ChromGC “Y” Press-Fit.

ChromGC also produces personalized Multiways Press-Fit connectors for advanced analytical system configurations as MDGC and other custom settings.



Guard Columns - Retention Gaps

- :: Inert
- :: Pretested
- :: Increased analytical column lifetime

Guard columns consist of 5 meters of deactivated fused silica supplied with high temperature string. All guard columns are extremely inert and each is pretested.

Guard columns are useful in protecting your analytical column from harmful non-volatile contaminants that are commonly found in many environmental and industrial samples.

Attaching the guard column to the front of the analytical column using fused silica connectors, or zero dead volume union, will extend your column's lifetime. The non-volatile contaminants are deposited onto the guard column.

Length	I.D. mm	Catalog Number
5 Meters	0.18	CH-6180-5
5 Meters	0.25	CH-6250-5
5 Meters	0.32	CH-6320-5
5 Meters	0.53	CH-6530-5



Inlet Gold Seals

Instrument	Description	Pack Size	Part Number
For Agilent 7890/6890/6850			
0.8mm Inlet Seal, Gold-plated Splittless, Gold-plated Washers		2	OV-4300
0.8mm Inlet Seal, Gold-plated, Splittless, Gold-plated Washers		10	OV-4300-10
0.8mm Inlet Seal, Gold-plated, Split Double Groove (Cross), Gold-plated Washers		2	OV-4400
0.8mm Inlet Seal, Gold-plated, Split Double Groove (Cross), Gold-plated Washers		10	OV-4400-10
Replacement Gold-plated Washers for Inlet Seal		12	OV-4800

GC Septa

Manufacturer	Size	Quantity	Part Number
Perkin Elmer	11mm	50	CHR-HD-P1544
Shimadzu	Plug	50	CHR-HD-S1544

What is an XTRM (Extreme) column?

XTRM columns are wall coated open tubular (WCOT) columns consisting of stainless steel tubing that has a special internal surface treatment. This special surface treatment makes the surface similar to deactivated fused silica. The unique surface treatment process permits us to offer XTRM columns in a wide range of internal diameters and phases. Because the special surface treatment permeates the stainless steel surface, rather than the conventional coating, the layer is particularly easy to bend, so the tubing can be coiled to very small diameters.

Compare XTRM columns and fused silica columns:

- Metal columns can be coiled under 4.5 inches without breaking, ideal for small instruments.
- Metal tubing allows XTRM columns to be used to higher temperatures (430°C) than fused silica columns (standard rating is 380°C).
- Coating efficiency (plates/meter) of XTRM columns is comparable to that of fused silica.
- Dormancy of XTRM columns and fused silica columns is comparable, due to the unique properties of the special surface treatment in XTRM columns.
- XTRM columns will not break under stress.

XTRM column phases available from Chrom4:

- CH-1-XTRM
 - CH-5-XTRM
 - CH-SE54-XTRM
 - CH-17-XTRM
- CH-35-XTRM
 - CH-SE52-XTRM
 - CH-624-XTRM
 - CH-SimDis-XTRM

For dimensions and information of the phases listed above, please visit www.chrom4.com or ask your local distributor.

Applications

Compound	Column
Acetal - Ethyl Acetate	CH-STAR-WAX
Acetic Acid monitoring	CH-FFAP (inquire)
Alcohol Ethoxylates	CH-5HT
Alkyl Naphthalens	CH-5
Anaesthetics Basic Drugs	CH-5
Aroclor 1254 - 1260 PCBs Quick Screening	CH-5
Basic Drugs Underivatized	CH-5
Benzene aromatic volatile compounds in air	CH-STAR-WAX
Benzyl Alcohol impurities	CH-FFAP (inquire)
Bergamot Oil FAST-GC	CH-1701
Bergamot Oil FAST-GC	CH-WAX (inquire)
Biodiesel - EN 14105 - ASTM D6584	CH-BIO
Biodiesel FAMES	CH-BIO
Biodiesel Glycerin - Triglycerides	CH-BIO
Blood Alcohol (Headspace)	CH-BAC1 & CH-BAC2
Blood Alcohols - HS	CH-BAC1 & CH-BAC2
Blood Alcohols - HS dual column	CH-BAC1 & CH-BAC2
BTEX FAST-GC	CH-624
Butter Triglycerides	CH-1
Chamomile Essential Oil FAST-GC	CH-STAR-WAX (inquire)
Chamomile Essential Oil FAST-GC Comparison	CH-1701
Chlorinated Hydrocarbons	CH-5 - EPA Method 612
Critical Flavor & Fragrances Compounds	CH-FFAP
Cyclic Hydrocarbons	CH-1
Determination of mineral oil hydrocarbons in vegetable oils	CH-1HT
Diethylene Glycol and Diols	CH-FFAP
Dimethylanilines	CH-STAR-WAX
Dioxins and Furans GC-MS	CH-5MS
Drugs and Adulterants	CH-5 (inquire by GC-MS)
Drugs of Abuse - Basic Drugs	CH-1
Drugs of Abuse - Cannabinoids	CH-1
Drugs Precursors	CH-5
FAMES (Fatty Acid Methyl Esters) C4 - C18	CH-STAR-WAX
FAMES (Fatty Acid Methyl Esters) C6 - C24	CH-STAR-WAX
FAMES (Fatty Acid Methyl Esters) Standard Mixture	CH-88
FAMES (Fatty Acid Methyl Esters) Standard Mixture FAST-GC	CH-88 (inquire)
FAMES and CLA isomers	CH-88
FAMES cis trans Isomers	CH-88
Flavor & Fragrances Compounds	CH-FFAP
Food Packaging Residual Solvents	CH-1701
Fragrance Allergens FAST-GC	CH-1701 (inquire)
Fragrance Allergens FAST-GC	CH-STAR-WAX (inquire)
Free Acids	CH-FFAP
Free Fatty Acids in Whisky	CH-FFAP

Compound	Column
Haloethers	CH-5 - EPA Method 611-8110
Halogenated Volatiles	CH-624 - EPA Method 551
Ketones	CH-1
Natural Gas Hydrocarbons	CH-1
Nitrogen-Phosphorus Pesticides Herbicides (Triazines)	CH-STAR-WAX EPA Method 619
Nitrosamines	CH-5 - EPA Method 607
Nitrosamines	CH-STAR-WAX
Olive Oil FAMES (Fatty Acid Methyl Esters) Cis-Trans Isomers -	CH-88
Organic Acids	CH-FFAP
Organochlorine Pesticides	CH-5 - EPA Method 608-8081
Organophosphorus Pesticides	CH-1 and CH-1701
PAH Polycyclic Aromatic Hydrocarbons	CH-PAH - EPA Method 610-8100
PAHs	CH-5MS - EPA 610 - 8100 - 8270
PAHs	CH-PAH (inquire) EPA Methods 610 - 8100 - 8270
PAHs	CH-PAH (inquire)
PAHs EPA 8270 - Helium Carrier Gas	CH-PAH
PAHs FAST-GC	CH-PAH (inquire)
Pesticides FAST-GC	CH-1701 (inquire)
Phenols	CH-1
Phenols	CH-5 - EPA Method 604
Phthalate Esters	CH-1 - EPA Method 606
Purgeable Aromatics	CH-STAR-WAX EPA Method 602
Residual Solvents UPS 467	CH-624
Serum Volatiles Control	CH-BAC1
Solvents	CH-WAX
Sulfur compounds in coffee aroma	CH-FFAP
USP 467 Residual Solvents (OVIs) FAST-GC Headspace	CH-624 (inquire) (G43 Phase)
VOCs in Drinking Water	CH-624 - EPA Method 524-3
Vodka	CH-STAR-WAX
Volatile Acidic Compounds	CH-FFAP
Volatile Free Acids	CH-FFAP
Whisky direct split injection	CH-624
Xylene Isomers	CH-FFAP



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