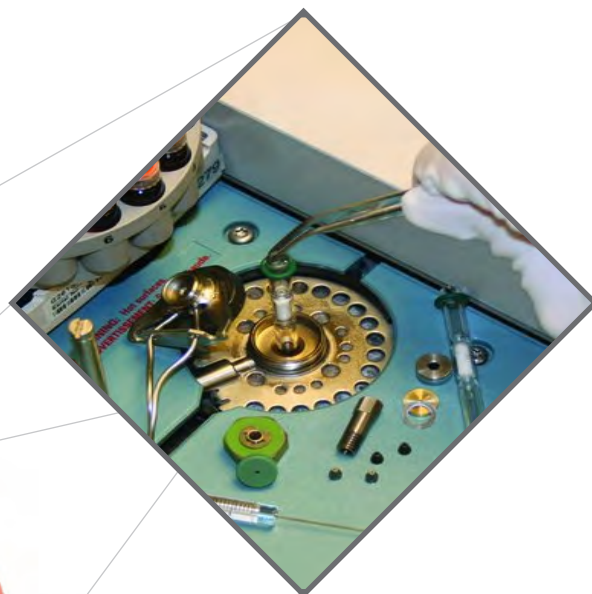







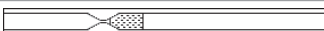
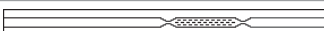

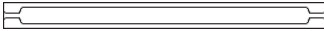

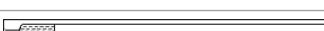



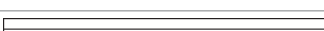


Accessories for Varian® GC Instruments









- Liners
- Ferrules
- Septa
- Syringes
- Vials
- Gas Purification

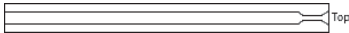


Liners for 1177 Split/Splitless Injector Ports

Product Description		I.D. (mm)	O.D. (mm)	Length (mm)	Unit	Varian® Part Number	Agilent® Part Number	Cat. No.
Split Liners								
Straight-through		4.0	6.3	78.5	5/pk	SG092007	8004-0156	2879405-U
Cup Design (unpacked)		4.0	6.3	78.5	5/pk	18740-80190	—	2051005
Cup Design (wool packed)		4.0	6.3	78.5	5/pk	18740-80190	—	2048205
Cup Design (packed with 10% OV-1 on Chromosorb W HP)		4.0	6.3	78.5	5/pk	18740-60840	—	2055105
Split/Splitless Liners								
Straight, with wool		4.0	6.3	78.5	5/pk	19251-60540 03-926119-34 SG092001	8004-0104	2048605
Tapered FocusLiner™		4.0	6.3	78.5	5/pk	SG092003	—	2879905-U
FocusLiner		4.0	6.5	78.5	5/pk	SG092002	—	2879805-U
Recessed gooseneck, with wool		4.0	6.3	78.5	5/pk	SG092010	8004-0103	2879705-U
Fast FocusLiner		2.3	6.3	78.5	5/pk	SG092005	—	2879605-U
Tapered Fast FocusLiner		2.3	6.3	78.5	5/pk	SG092111	—	2879505-U
Splitless								
Double taper		4.0	6.3	78.5	5/pk	03-926119-29 SG092018	8004-0105	2048505
Single taper		4.0	6.3	78.5	5/pk	03-926119-27 SG092017	—	2046605
Single taper, with wool		4.0	6.3	78.5	5/pk	03-926119-28 SG092019	8004-0102	2047805
Recessed gooseneck		2.0	6.3	78.5	5/pk	SG092013	—	2879305-U
Straight Design (unpacked)		2.0	6.5	78.5	5/pk	—	—	2051305
Direct Liners								
Direct (SPME) Type, Straight Design (unpacked)		0.75	6.5	78.5	5/pk	—	—	2637505
Straight-through		1.5	6.3	78.5	5/pk	03-926119-26 SG092016	8004-0107	2051705

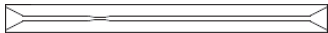

Liners for 1078/1079 Injector Ports

Product Description		I.D. (mm)	O.D. (mm)	Length (mm)	Unit	Varian® Part Number	Agilent® Part Number	Cat. No.
Split Liners								
Frit Design (unpacked)		3.4	5.0	54	1/pk	03-918464-01	8004-0171	2637201
Straight Design (unpacked)		3.4	5.0	54	1/pk	03-918464-00 SG092038	8004-0108	2637101
Straight Design (packed with 10% OV-101 on 80/100 Chromosorb® W HP)		3.4	5.0	54	1/pk	03-918956-00	—	2637301
Split/Splitless Liners								
FocusLiner		3.4	5.0	54	5/pk	SG092037	—	2875705-U
Tapered FocusLiner		3.4	5.0	54	5/pk	SG092036	—	2875505-U
Splitless Liners								
Straight Design (wool packed)		3.4	5.0	54	1/pk	03-925350-00	—	2637701



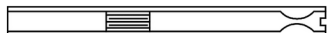








Liners for 1078/1079 Injector Ports (continued)

Product Description		I.D. (mm)	O.D. (mm)	Length (mm)	Unit	Varian® Part Number	Agilent® Part Number	Cat. No.
Single taper		2.0	5.0	54	5/pk	03-918466-00 SG092039	8004-0109	2637405
Other Liners								
Straight-through Liner		0.5	5.0	54	5/pk	03-925331-00 SG092031	—	2637605 2875205-U
SPME, straight		0.8	5.0	54	5/pk	03-926119-48 SG092117	8004-0176	2637801

Liners for 1093/1094 Injector Ports

Product Description		I.D. (mm)	O.D. (mm)	Length (mm)	Unit	Varian® Part Number	Agilent® Part Number	Cat. No.
Direct Liners								
SPI for 0,25/0,32 mm I.D. columns		0.5	4.6	54	5/pk	01-900109-06 01-900066-18 03-918332-01 SG092027	8004-0167	2636305
SPME type, straight Design		0.8	4.6	54	5/pk	01-900066-19 01-900109-07 03-918332-02 SG092030	8004-0110	2636405

Liners for 1075/1077 Injector Ports

Product Description		I.D. (mm)	O.D. (mm)	Length (mm)	Unit	Varian® Part Number	Agilent® Part Number	Cat. No.
Split Liners								
Frit Design (unpacked)		4.0	6.3	72	5/pk	01-900109-03 16-000830-01	—	2050505
Baffle Design (unpacked)		4.0	6.3	72	5/pk		—	2050105
Single Taper Design (wool packed)		4.0	6.3	72	5/pk	SG092021	8004-0111	2875605-U
FocusLiner		4.0	6.3	72	5/pk	SG092022	—	2875405-U
Fast FocusLiner		2.3	6.3	72	1/pk	SG09211301	—	2874701-U
Tapered FocusLiner		4.0	6.3	72	1/pk	SG09202501	—	2874801-U
FocusLiner with Top-end Restriction		4.0	6.3	72	5/pk	SG092028	—	2874905-U
Splitless Liners								
Straight Design (unpacked)		2.0	6.3	74	5/pk	01-900109-05 03-949437-90 SG092024	—	2050205
Single Taper Design (unpacked)		4.0	6.35	73	1/pk	03-918339-00	—	2636801
Split/Splitless Liners								
Straight Design (unpacked)		4.0	6.3	72	1/pk	16-000830-00	—	2636101
Straight Design (wool packed)		3.4	6.3	72	5/pk	01-900109-01	—	2636005
Other Liners								
Direct (SPME) Type, Straight Design		0.75	6.35	74	5/pk	—	—	2635805

The cross reference to manufacturer part numbers listed here serve as a recommendation that the Supelco products are viable alternative to the manufacturer's products. Although Supelco products may have, in some cases, slightly different designs as compared to the manufacturer's counterparts, Supelco products are compatible with the corresponding Varian® (now Bruker) instruments.

Capillary Column Ferrules

Injector	Fitting Size (in.)	Ferrule I.D. (mm)	Column I.D. (mm)	Unit	Varian® Part Number	Agilent® Part Number	Cat. No.	Cat. No.
Supeltex® M-2A						Pk10	Pk10	pk50
1177, 1179	1/16	0.4	0.10–0.25	10/pk	CR213104	8004-0212	24826-U	28022-U
	1/16	0.5	0.32	10/pk	CR213105	8004-0214	24824-U	28023-U
1177, 1079, 1061, 1041	1/16	0.8	0.53	10/pk	CR213108	8004-0216	24823-U	28024-U
Supeltex M-4								
1177, 1179	1/16	0.4	0.25	10/pk	CR211104	8010-0301	28025-U	28028-U
	1/16	0.5	0.32	10/pk	CR211105	8010-0302	28026-U	28031-U
1177, 1079, 1061, 1041	1/16	0.8	0.53	10/pk	CR211108	8010-0304	28027-U	28032-U

Packed Column Ferrules for 1093, 1061, 1041 – 1/4 in. Column O.D.

Description	Varian® Part Number	Agilent® Part Number	Cat. No.	Cat. No.
	Pk10	Pk10	Pk10	Pk50
PTFE Packed Column Ferrule	—	—	29024-U	—
Supeltex M-1	—	—	22086-U	22087-U
Supeltex M-2	—	—	22320-U	22475
Supeltex M-2A	CR213400	8044-0217	22481	22471
Supeltex M-4	CR211400	8044-0305	22492	22478

Designation	Max Temp.	Composition	Characteristics
Supeltex M-1	250 °C	Ceramic-filled PTFE	Ideal for connections to mass spectrometers. High reusability. Isothermal use only.
Supeltex M-2	350 °C	DuPont VESPEL SP-1 (100% polyimide)	High reusability
Supeltex M-2A	400 °C	DuPont VESPEL SP-21 (85% polyimide/15% graphite)	Seals at 1/4-turn past fingertight. High reusability. Won't stick to metal or glass.
Supeltex M-2B	350 °C	DuPont VESPEL SP-211 (75% polyimide/15% graphite, 10% PTFE)	Conforms easily to capillary column, ensuring an effective seal and less chance of breakage.
Supeltex M-4	450 °C	Flexible graphite	Seals at 1/4-turn past fingertight. Maximum sealing surface contact, reduced risk of column contamination at installation. An improved design. Supelco has refined the design of graphite ferrules so that we can offer you the finest quality ferrule available. Compare these ferrules to the graphite ferrules you are now using. Supeltex M-4 ferrules offer a clean, sharp profile with minimal flash.

Supeltex M-4



Supeltex M-2



Supeltex M-1



Supeltex M-2A



PTFE Packed Column Ferrule



Inlet Septa

Description	Similar to Manufacturer Part Number	Agilent® Part Number	Cat. No.	Cat. No.	Cat. No.
Thermogreen® LB-2 Septa		50/pk	50/pk	250/pk	1,000/pk
9.0 mm	1177 Injector	—	—	28021-U	—
9.5 mm	1040, 1041, 1060 and 1061 Injectors	CR246124	8010-0203	28652	20666
11 mm	1075, 1077, 1078, 1079 injectors and 1093, 1094 SPI Injectors	—	—	20654	23163
11.5 mm	—	—	—	23154	—
Molded Thermogreen LB-2 Septa					
9.5 mm, with injection hole	1040, 1041, 1060 and 1061 Injectors	—	—	28331-U	28332-U
9.5 mm, solid discs	1040, 1041, 1060 and 1061 Injectors	—	—	28670-U	28671-U
11 mm, with injection hole	1075, 1077, 1078, 1079 injectors and 1093, 1094 SPI Injectors	CR246225	8010-0207	28336-U	28338-U
11 mm, solid discs	1075, 1077, 1078, 1079 injectors and 1093, 1094 SPI Injectors	—	—	28676-U	28678-U
11.5 mm, with injection hole	—	CR246725	8010-0209	29446-U	29448-U
11.5 mm, solid discs	—	—	—	29449-U	29451-U

Our molded Thermogreen LB-2 septa offer the perfect combination of low bleed, thermal stability, and easy puncturability.

- Rubber formulation exclusive to Supelco
- Strict tolerances (diameter, thickness, injection hole) due to constant dimension of the mold itself
- Ultra low bleed over a wide range of inlet temperatures (100 °C to 350 °C)
- No foreign substances/powders (which could contaminate the inlet) are used during manufacturing
- Fully tested for bleed and contamination
- Already conditioned, ready-to-use
- Ideal for use with low bleed GC-MS columns



For more information, visit sigma-aldrich.com/septa

Molded Thermogreen LB-2 septa are offered in two styles:

- With injection hole – reduces coring and extends life
- Solid discs – traditional design

We recommend using Thermogreen LB-2 septa when the diameter required is not offered in the Molded Thermogreen LB-2 septa line.



Merlin Microseal™ System Kits

Description	Max Pressure	Cat. No.
For Varian® 3400/3800 GCs with 1077/1078/1079 Injectors	100 psi	24817-U
For Varian® 3800 GCs with CP-1177 Injector	100 psi	22609-U



Autosampler Syringes

Model	Volume (µL)	Description	Needle Gauge/Length (mm)/Tip	Unit	Manufacturer Part Number	Agilent® Part Number	Cat. No.
Varian** CP8400, CP8410, CP9010, CP9050	5	Fixed needle – 75N	26/51/bevel tip	1/pk	87900	—	26200-U
	10	Fixed needle – 701N	26/51/bevel tip	1/pk	80300	—	20734
	10	Fixed needle – 701N	26/51/bevel tip	6/pk	80366	—	20779
	10	Fixed needle – 10F-V-5/0.47A	26/50/bevel tip	1/pk	SG002950	8004-0001	29617-U
	10	Fixed needle – 10F-C/T-5/0.63C	23/50/cone tip	1/pk	SG002981	8010-0351	29624-U
	10	Fixed needle – 701N	23/51/conical style	1/pk	80342	—	—
	10	Fixed needle – 701N	26/51/ Side hole tip	1/pk	80339	—	—
	10	Fixed needle – 701 RN	26/51/bevel tip	1/pk	80330	—	20697
Varian** 8035, 8100, 8200	10	Model 701 RN Varian® 8100/8200 SYR, Small Removable NDL	26/51/side hole tip	1/pk	202880	—	—
	—	Replacement needle	26/51/ Side hole tip	6/pk	202903	—	—
	10	Removable needle, Gastight – 10R-GT-VA8X-2	25/53/side hole tip	1/pk	SG002924	8004-0006	24421
	—	Replacement needle	2,09/53 - Gauge 25	1/pk	SG037777	—	24445
	—	Replacement plunger	25/53/side hole tip	1/pk	SG031218	8004-0007	21924

Color-Coded Syringes from SGE

SGE has implemented significant changes to their chromatographic syringe line to make it easier to distinguish between the different volumes of syringes while experiencing improved technical performance. The glass barrels of SGE autosampler syringes are now according to volume to make it easier and faster for an analyst to select the proper volume of syringe for different applications. This color-coding also makes it easier for quick volume identification of syringes already installed in an autosampler.



Color	Volume
Light Orange	0.5 µL, 500 µL
Yellow	1 µL, 1 mL
Lime	5 µL, 5 mL
Dark Orange	10 µL, 10 mL
Green	25 µL, 25 mL
Purple	50 µL, 50 mL
Aqua	100 µL, 100 mL
Grey	250 µL, 2.5 mL

GC Autosampler Syringes from Hamilton

Hamilton maintains a large catalog of replacement syringes for the most popular gas chromatography autosamplers. These syringes are handmade with an unmatched attention to detail. The manufacturing process and quality assurance procedures ensure that every syringe will provide superior accuracy and precision as well as cycle life. Choose the sub category that is associated with your autosampler manufacturer to find the syringes available for your instrument.

Hamilton® 80330



For more information, visit sigma-aldrich.com/syringes

Vials - The most useful Convenience Kits for your Varian® GCs

Product Description	Pack Size	Cat. No.	Pack Size	Cat. No.
2 in 1 Kit – Screw Top Vials with 9 mm Thread – 2 mL – Clear Glass	Clear PP Caps		Blue PP Caps	
PTFE/red rubber septum	100	SU860206	100	29056-U
PTFE/silicone septum	100	SU860207	100	29057-U
PTFE/silicone/PTFE septum	—	—	100	29058-U
With marking spot and PTFE/red rubber septum	100	29064-U	—	—
With marking spot and PTFE/silicone septum	100	29065-U	100	29386-U
With marking spot and PTFE/silicone/PTFE septum	100	29066-U	100	SU860209
UltraBond PTFE/silicone beige septum (sealed in the caps)	—	—	100	SU860194
PTFE/silicone septum with slit (certified)	100	29379-U	—	—
With marking spot and PTFE/silicone septum with slit (certified)	100	29384-U	—	—
2 in 1 Kit – Screw Top Vials with 9 mm Thread – 2 mL – Amber Glass	Clear PP Caps		Blue PP Caps	
PTFE/red rubber septum	100	29061-U	—	—
PTFE/silicone septum	100	29062-U	100	29385-U
PTFE/silicone/PTFE septum	100	29063-U	—	—
With marking spot and PTFE/red rubber septum	100	29067-U	—	—
With marking spot and PTFE/silicone septum	100	29068-U	100	29381-U
With marking spot and PTFE/silicone septum with slit	—	—	100	29387-U
2 in 1 Kit – Screw Top Vials with 9 mm Thread – 2 mL – Low Volume	Clear PP Caps		Blue PP Caps	
1, 1 mL - Clear glass with PTFE/silicone septum with slit	—	—	100	SU860193
Clear polypropylene (with integrated 0.3 mL insert) and PTFE/Silicone septum	—	—	100	SU860197
Transparent polypropylene vial (with integrated 0.3 mL insert) PTFE/Silicone septum with slit	—	—	100	SU860205
0,7 mL Polypropylène - UltraBond beige silicone/white PTFE septum	—	—	100	SU860203
0,7 mL Polypropylène - UltraBond beige silicone/white PTFE septum with slit	—	—	100	SU860204
2 in 1 Kit – Standard Opening – 2 ml Screw Vials	Black PP Caps		PP Caps	
Clear glass with PTFE/silicone septum 1000	—	SU860199	100	29104-U
Amber glass with PTFE/silicone septum 100	—	SU860198	100	29106-U
Amber glass with PTFE/silicone/PTFE septum	—	—	100	29108-U
Clear glass with PTFE/silicone/PTFE septum	—	—	100	29107-U
Clear glass with PTFE/rubber septum 100	—	SU860202	—	—
2 in 1 Kit – Large Opening 10-425 – 2 mL Screw Vials	PP Caps			
Clear glass with PTFE/Rubber septum	—	—	100	29116-U
Amber glass with PTFE/Rubber septum	—	—	100	29117-U
Clear glass with PTFE/silicone septum	—	—	100	29118-U
Amber glass with PTFE/silicone septum	—	—	100	29119-u
2 in 1 Kit – Snap Seal Vials Large Opening with PP Caps	Clear PP Caps		Certified Kits	
Clear glass with PTFE/Rubber septum 100	—	29141-U	—	—
Amber glass with PTFE/Rubber septum 100	—	29144-U	—	—
Clear glass with PTFE/silicone septum 100	—	29142-U	100	29421-U
Amber glass with PTFE/silicone septum 100	—	29145-U	—	—
Clear glass with PTFE/silicone/PTFE septum 100	—	29143-U	—	—
Amber glass with PTFE/silicone/PTFE septum 100	—	29146-U	—	—
Clear polypropylene (with integrated 0.3 mL insert) and PTFE/Silicone septum	—	—	100	29412-U
2 in 1 Kit – Large Opening – 2 mL Crimp Vials	Certified Kits			
Clear glass with PTFE/red rubber silver aluminum seal	—	—	1,000	27240-U
Amber glass with PTFE/red rubber silver aluminum seal	—	—	1,000	27242-U
Clear glass with PTFE/red rubber aluminum seal	100	29124-U	—	—
Amber glass with PTFE/red rubber aluminum seal	100	29127-U	—	—
Amber glass with PTFE/silicone aluminium seal	100	29128-U	—	—
Clear glass with PTFE/silicone aluminium seal	100	29125-U	—	—
Clear glass with PTFE/silicone/PTFE aluminium seal	100	29126-U	—	—

Accessories for Varian®/Bruker GC Instruments

Product Description	Pack Size	Cat. No.	Pack Size	Cat. No.
2 in 1 Kit – Large Opening – 1.5 mL Vials – Center Drain – Screw and Snap Vials			Certified Kits – Blue Caps	
Clear glass, PTFE/silicone septum, cap is bonded to septa to prevent fallout	—	—	100	29307-U
Clear glass, PTFE/silicone/PTFE septum, cap is bonded to septa	—	—	100	29308-U
Clear glass, PTFE/silicone septum, cap is bonded to septa (with slit)	—	—	100	29309-U
Amber glass, PTFE/silicone/PTFE septum, cap is bonded to septa	—	—	100	29313-U
Amber glass, PTFE/silicone septum, cap is bonded to septa (with slit)	—	—	100	29314-U
Clear glass, snap top, PTFE septa (0.010" thick) sealed in the cap	—	—	100	29301-U
Clear glass Snap top vial, PTFE/silicone septum, cap is bonded to septa	—	—	100	29302-U
Clear glass Snap top vial, PTFE/silicone septum, cap is bonded to septa (with slit)	—	—	100	29303-U
2 in 1 Kit – Vials Qsert – Large Opening 9 mm with Fused Insert 300 µL			Certified Kits	
Clear glass vial (with fused insert 300 µL) with Pico Pure Plus+ caps	—	—	100	29406-U
Amber glass vial (with fused insert 300 µL) with Pico Pure Plus+ caps	—	—	100	29416-U
2 in 1 Kit – 4 mL Clear Glass Vials – with Black PP Screw Caps			Black PP Caps	
With PTFE/Silicone septum 0.25 mm	100	SU860213	—	—
3 in 1 kit: with black polypropylene screw cap and PTFE septum	100	SU860210	—	—
Clear glass – Precleaned and assembled – with PTFE/Silicone septum	100	27340	—	—
2 in 1 Kit – Large Opening – 3,8 mL Screw Vials – Center Drain			Certified Kits	
Clear glass – black polypropylene hole cap with PTFE/silicone septa (bonded)	—	—	100	29327-U
Clear glass – black polypropylene hole cap with PTFE/silicone septa (bonded) with slit	—	—	100	29328-U
Amber glass – black polypropylene hole cap with PTFE/silicone septa (bonded)	—	—	100	29330-U
Amber glass – black polypropylene hole cap with PTFE/silicone septa (bonded) with slit	—	—	100	29331-U
Headspace Crimp Vials and Caps			Vials	Caps
10 mL, clear glass beveled finish, flat bottom, 22.5 x 46 mm	100	SU860029	—	—
20 mL, clear glass beveled finish, flat bottom, 23 x 75 mm	100	SU860030	—	—
20 mL, clear glass beveled finish, round bottom, 23 x 75.5 mm	100	SU860049	—	—
Silver aluminum seal, open center, silicone blue transparent/PTFE transparent, 3 mm x 5 mil	—	—	1,000	SU860010
Silver steel (magnetic), open center (5 mm opening), PTFE/silicone septum	—	—	100	27300
Headspace Crimp Vials and Caps			Vials	Caps
10 mL, clear glass, round bottom, 22.5 x 46 mm	100	SU860099	—	—
20 mL, clear glass, round bottom, 22.5 x 75.5 mm	100	SU860097	—	—
Stainless steel screw cap (magnetic, open-top), thread 18, PTFE/silicone septum, septum thickness 1.3 mm	—	—	100	SU860101
Stainless steel screw cap (magnetic, open-top), thread 18, PTFE/silicone septum, septum thickness 1.5 mm	—	—	100	SU860103

Vial Compatibility	Screw Top Vials			Crimp Top Vials	
	8 mm	9 mm	13 mm	11 mm	Headspace
Autosampler					
CP-8410	—	✓	✓	✓	—
8034/8035/8100/8200	✓	✓	—	✓	—
9095/9100	✓	✓	—	✓	—
Prostar 400/410/420	✓	✓	—	✓	—
Prostar 430	✓	✓	—	✓	—
Genesis	—	—	—	—	✓

Purifiers

Gas purification begins by determining the contaminants that need to be removed from the particular gas stream, levels to which the contaminants must be reduced, flow and pressure needs of the system and the desired frequency of purifier change-out. Multiple purifiers may be necessary to remove the desired levels of contaminants to adequately protect the column and detector. Purifiers for most applications are listed below. Other purifiers are available, and can be found in our catalog and on our website.

OMI® (Oxygen Moisture Indicating) Polishing Purifier



- Polishing purifier that removes many contaminants that other upstream purifiers miss
- Simultaneously removes moisture, oxygen, carbon monoxide, carbon dioxide, most sulfur compounds, most halogen compounds, alcohols and phenols to less than 10 ppb
- Detects moisture and oxygen in hydrogen, helium, nitrogen, argon and argon/methane
- As little as 1 ppm of moisture or oxygen will change the indicating resin from black to brown
- The indicating resin is licensed exclusively to Supelco for use in chromatographic applications
- Inert glass body prevents diffusion of ambient room contaminants into the carrier gas stream
- See-through polycarbonate holder provides safety

Supelcarb® HC Hydrocarbon Trap



- Removes organics from carrier gases, air and hydrogen
- Twice the trapping ability of activated charcoal
- Activated charcoal purifier that adsorbs hydrocarbons and other contaminants from carrier gas, compressed air and hydrogen
- When the total hydrocarbons in the incoming gas average 100 ppm, operates efficiently for approximately six months

High Capacity Gas Purifier



- Removes moisture, oxygen, carbon monoxide and carbon dioxide
- No other purifier removes both moisture and oxygen in such large quantities
- Removes up to 35 liters of moisture or 14 liters of oxygen
- Clamshell heating unit has been specifically designed to ensure maximum gas purity
- Purifier tube is heated inside an oven where moisture and oxygen react with the reactant material in the tube
- Irreversible chemical reaction prevents contaminants from returning to the gas stream even when the purifier tube reaches saturation

Molecular Sieve 5A Water Vapor Trap



- Can reduce moisture in the gas stream to final concentrations less than 0.1 ppm
- Also preferred for use on in-house gas lines where moisture content could be high
- Offers greater working capacity than similar molecular sieves

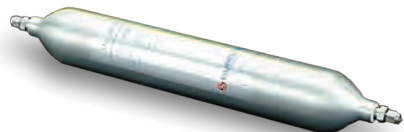
Supelpure-O Oxygen Trap



- Reduces oxygen to less than 0.5 ppm when the level in the incoming gas does not exceed 10 ppm
- Oxygen-removing catalyst coated on a molecular sieve, will also trap significant amounts of moisture
- 120 cc purifier removes up to 1.5 g of moisture
- 750 cc purifier removes up to 10.2 g of moisture

Accessories for Varian®/Bruker GC Instruments

Supelco® Helium Purifier



- Incorporates a highly effective, high capacity adsorbent material to remove hydrocarbons, moisture, oxygen, carbon monoxide and carbon dioxide from helium streams
- Ideal for any GC or GC-MS application where high purity helium is essential
- Output gas is 99.99999% pure
- Output purity: <100 ppb total of all contaminants, <30 ppb hydrocarbons (as methane), <20 ppb moisture, <2 ppb oxygen, <20 ppb carbon monoxide, <20 ppb carbon dioxide

Carbon Dioxin Trap



- Selectively removes carbon dioxide from gas streams
- Contains sodium hydroxide nonfibrous silicate media
- Media changes color from greenish-brown to white as carbon dioxide is absorbed
- Media can absorb 20–30% of its weight in carbon dioxide before reaching saturation
- Media evolves water as carbon dioxide is absorbed (recommend to install a water vapor trap downstream)

Recommended Purifier Options per Application

Carrier gas: need to remove hydrocarbons, moisture and oxygen

- Option 1: Supelpure HC, High Capacity Gas Purifier, OMI-2
 2: Supelpure HC, Molecular Sieve 5A, Supelpure-O, OMI-2
 3: Supelco Helium Purifier, OMI-2
 4: Super Clean™ hydrocarbon, Super Clean moisture, Super Clean oxygen, OMI-2
 5: Super Clean dual, Super Clean oxygen, OMI-2
 6: Super Clean triple, OMI-2

Compressed air (for FIDs): need to remove hydrocarbons and moisture

- Option 1: Supelpure HC, Molecular Sieve 5A
 2: Super Clean hydrocarbon, Super Clean moisture
 3: Super Clean dual

Hydrogen fuel gas (for FIDs): need to remove hydrocarbons

- Option 1: Supelpure HC
 2: Super Clean hydrocarbon

Compress air (for pneumatic control): need to remove moisture

- Option 1: Economy water vapor trap

Purifier Accessories

Description	Cat. No.
Mounting Clips	
For 100 cc traps, 1 ea.	502936
For 120 cc traps, 1 ea.	23993
For 200 cc traps, 1 ea.	503231
For 400 cc traps, 1 ea.	23990
For 750 cc traps, 1 ea.	24983

Description	Cat. No.
OMI Holders	
OMI-2 holder, 1/8 inch stainless steel fittings	23921
OMI-4 holder, 1/8 inch stainless steel fittings	23926
Purifier Refills	
Supelpure HC hydrocarbon trap refill, non-indicating, 400 cc	22451
Molecular Sieve 5A water vapor trap refill, non-indicating, 220 g	20298
Carbon dioxide trap refill, indicating, 500 cc	503223
Economy water vapor trap refill, indicating, 475 cc	23989

Purifiers

Description	Design	Indicating	Fittings	Cat. No.
Polishing Purifiers (remove many contaminants that upstream purifiers miss)				
OMI®-2 purifier tube	In-line ¹	Yes ²	n/a	23906
OMI-4 purifier tube	In-line ¹	Yes ²	n/a	23909
Hydrocarbon-only Removing Purifiers				
Supelcarb® HC hydrocarbon trap, 120 cc	In-line	No	1/8 inch	24448
Supelcarb HC hydrocarbon trap, 120 cc	In-line	No	1/4 inch	24449
Supelcarb HC hydrocarbon trap, 750 cc	In-line	No	1/4 inch	24564
Supelcarb HC hydrocarbon trap, 750 cc	In-line	No	1/2 inch	24565
Supelpure® HC hydrocarbon trap, 120 cc	In-line	No	1/8 inch	22445-U
Supelpure HC hydrocarbon trap, 120 cc	In-line	No	1/4 inch	22446
Supelpure HC hydrocarbon trap, 750 cc	In-line	No	1/4 inch	24518
Supelpure HC hydrocarbon trap, 750 cc	In-line	No	1/2 inch	24519
High Capacity Moisture and Oxygen Removing Purifiers				
High Capacity Gas Purifier, 110 V	In-line	No	1/8 inch	23800-U
High Capacity Gas Purifier, 230 V	In-line	No	1/8 inch	23801
High Capacity replacement purifier tube	In-line	No	1/8 inch	22396
High Capacity Gas Purifier, 110 V	In-line	No	1/4 inch	23802
High Capacity Gas Purifier, 230 V	In-line	No	1/4 inch	23803
High Capacity replacement purifier tube	In-line	No	1/4 inch	22398
Moisture-only Removing Purifiers				
Molecular Sieve 5A water vapor trap, 200 cc	In-line	No	1/8 inch	20619
Molecular Sieve 5A water vapor trap, 200 cc	In-line	No	1/4 inch	20618
Molecular Sieve 5A water vapor trap, 750 cc	In-line	No	1/4 inch	23991
Molecular Sieve 5A water vapor trap, 750 cc	In-line	No	1/2 inch	23992
Economy water vapor trap, 400 cc	In-line	Yes	1/8 inch	23987
Economy water vapor trap, 400 cc	In-line	Yes	1/4 inch	23988
Oxygen-only Removing Purifiers				
Supelpure-O oxygen trap, 120 cc	In-line	No	1/8 inch	22449
Supelpure-O oxygen trap, 120 cc	In-line	No	1/4 inch	22450-U
Supelpure-O oxygen trap, 750 cc	In-line	No	1/4 inch	503088
Supelpure-O oxygen trap, 750 cc	In-line	No	1/2 inch	503096
Triple Purifiers (remove hydrocarbons, moisture and oxygen)				
Supelco® Helium purifier	In-line	No	1/8 inch	27600-U
Supelco Helium purifier	In-line	No	1/4 inch	27601-U
Super Clean™ triple purifier	Base-plate ³	Yes ⁴	n/a	SU861026
Super Clean triple purifier, helium specific	Base-plate ³	Yes ⁴	n/a	SU861027
Carbon Dioxide-only Removing Purifiers				
Carbon dioxide trap, 100 cc	In-line	Yes	1/8 inch	503185
Carbon dioxide trap, 100 cc	In-line	Yes	1/4 inch	503193
Carbon dioxide trap, 250 cc	In-line	Yes	1/8 inch	503207
Carbon dioxide trap, 250 cc	In-line	Yes	1/4 inch	503215

1. Must be installed into a reusable holder prior to use

2. Indicating for moisture and oxygen

3. Must be installed into a reusable base-plate prior to use

4. Not indicating for hydrocarbons

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