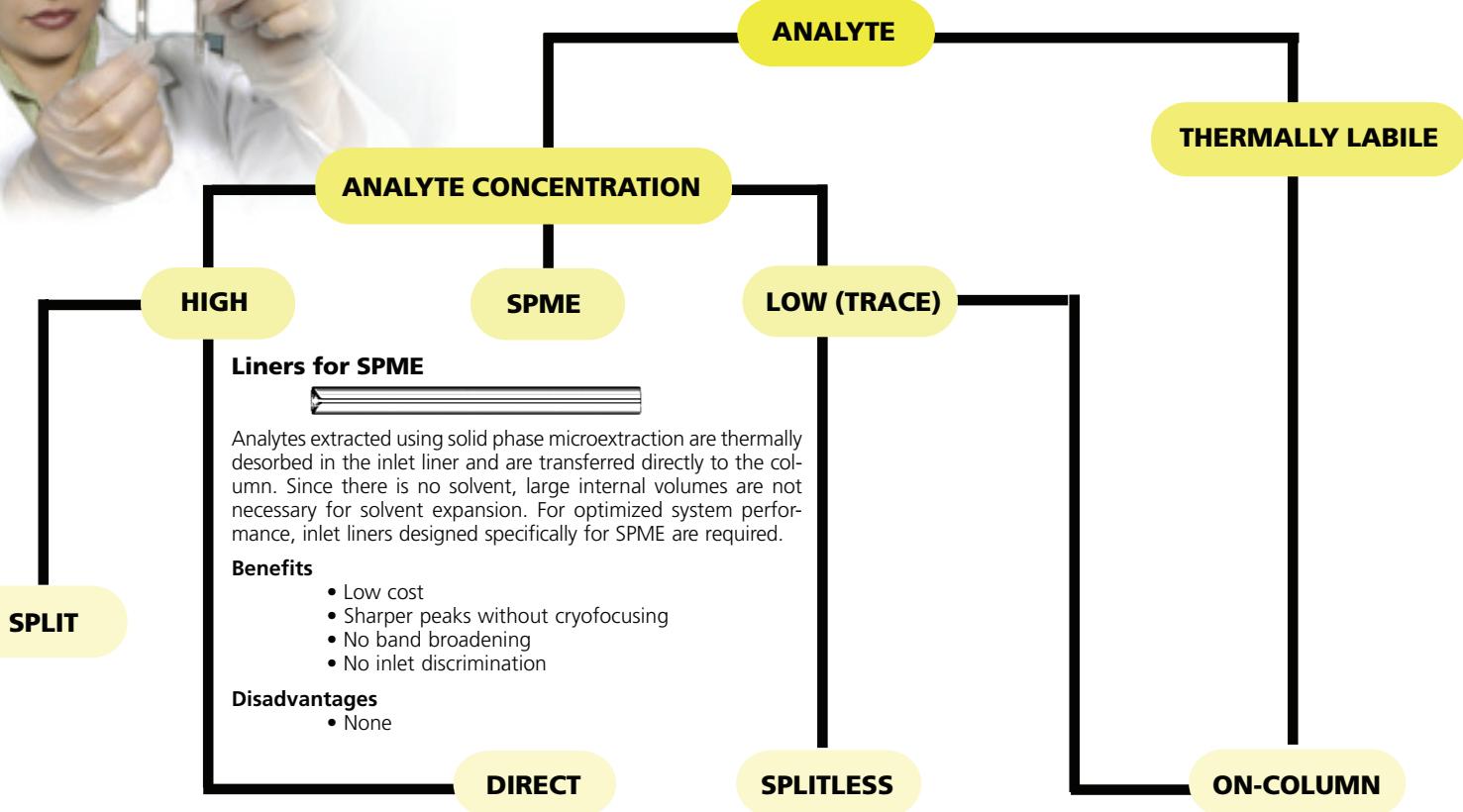


Selecting The Appropriate INLET LINER

Don't Let The Quality of Your Inlet Liner Limit the Efficiency of Your GC System.



Liners for Split Injections

Split injection is the most common injection method used. Split liners use a design that establishes turbulent flow rather than laminar flow, ensuring sample vaporization and enhancing proper mixing prior to the point where the sample is split, thereby minimizing inlet discrimination.

Split Liner Packed with Wool



Large expansion volume and surface area of wool enhance the mixing and vaporization of the sample and trap septa fragments and nonvolatiles in dirty samples.

Uses

- General and autosampler use
- Use with a wide range of molecular weight analytes

Benefits

- Easy to use (clean and replace dirty wool)
- Inexpensive

Disadvantages

- Glass wool could adsorb analytes or contribute to analyte decomposition

Fritted Liner



Incorporates the high surface area and complex flow path through a porous ceramic frit to create turbulent flow needed for sample mixing.

Uses

- General

Benefits

- Minimized sample discrimination
- Effectively traps particles and nonvolatiles

Disadvantages

- Somewhat expensive
- Ceramic frit can adsorb or contribute to analyte decomposition
- Cannot be cleaned easily

Cup Splitter



Complex flow path enhances volatilization of high molecular weight compounds. Can be packed with wool to trap nonvolatiles.

Uses

- High analyte concentrations
- High molecular weight analytes
- Large sample volume (up to 5 μ L)
- Dual column applications

Benefits

- Inlet discrimination is minimized
- Design enhances resolution

Disadvantages

- Expensive
- Hard to clean

Baffle Splitter



Turbulent flow created by internal baffles.

Uses

- General
- Analytes with narrow range of boiling points

Benefits

- Moderately priced
- Can be cleaned

Disadvantages

- Nonvolatiles and septa fragments can get into the column
- Inlet discrimination

Liners for Direct Injection

Typically used with packed column GCs that have been converted for use with wide bore capillary columns (ID \geq 0.53mm).

Straight Tube



Usually have small ID (\geq 1mm).

Benefits

- Low cost
- Can be used with isothermal or temperature programmed injections
- No specialized pneumatics are required
- No splitter discrimination

Disadvantages

- Decomposition of thermally labile compounds
- Easy to overload
- Sample flashback
- Column contamination

Liners for Splitless Injections

Since the sample dwell time in the liner is significantly longer in the splitless injection mode, the liner design does not need to create high turbulence. Splitless liners usually are straight tubes with internal volume between 0.25mL and 1mL. Use a liner with internal volume equal to or larger than the expansion volume of the solvent.

NOTE: Deactivation of liners is very important due to the long residence time in the liner.

Straight Tube Configuration



Use low internal volume for slow manual injections and larger volume for fast autosampler injections. For maximum reproducibility, wool-packed liners are recommended for fast injections.

Benefits

- Inexpensive

Disadvantages

- Discrimination of high molecular weight compounds
- Sample decomposition of active compounds
- Sample flashback

Single & Dual Tapered Configurations



These inlet liners feature a tapered restriction that helps vaporize the sample in the deactivated glass of the liner. This minimizes the breakdown of compounds that are sensitive to the metal inlet surfaces present in some GCs.

Benefits

- High efficiency
- Reduced breakdown of active compounds
- Less sample flashback than straight liners

Disadvantages

- Higher cost

Liners for On-Column Injection



Samples are deposited in the inlet of the column. A specialized syringe usually is required. The liner is designed with a tapered region where the end to the column is seated to create a seal between the column and the liner. This taper also guides the needle into the column.

Uses

- Thermally labile compound analysis

Benefits

- High analytical precision

Disadvantages

- Band broadening
- Column overload
- Column contamination (should not be used with dirty samples or samples containing nonvolatiles)

GC Column FocusLiner™ Inlet Liners

Part of the Large Selection of Inlet Liners from Supelco

Supelco has expanded their line of inlet liners to include the **FocusLiner series** and other configurations previously not available.



Features & Benefits

- High temperature deactivation
- Enhanced sample vaporization
- Precision, accuracy, and reliability
- Maximum sensitivity/detection levels
- Guaranteed to fit
- Competitively priced

FocusLiners incorporate a unique design to prevent shifting of the quartz wool during repeated injections or sudden inlet pressure changes. **Tapers** inside the FocusLiner hold the glass wool plug in an optimum position.

This positioning results in wool plug penetration by the needle tip during an injection. The wool provides a large surface area for sample vaporization, and the wiping action removes residual liquid sample from the needle tip, thus preventing droplet formation. This improves reproducibility as much as 10 fold, reduces solvent tailing, and lowers mass discrimination during split injections without any cost disadvantage compared to alternative liners.

FocusLiners are available for all major GC instruments, a variety of injection techniques, and for 0.10 mm I.D. Fast Capillary columns. For technical assistance or help choosing an inlet liner, contact Supelco Technical Service at 800-359-3041/814-359-3041, or e-mail us at techservice@sial.com

FocusLiners are compatible with the following instrument manufacturers:

- | | |
|--|--|
| <ul style="list-style-type: none">• Agilent / Finnigan• Shimadzu• Varian | <ul style="list-style-type: none">• PerkinElmer• Thermo |
|--|--|

Agilent

Inlet Liners for Agilent / HP -
Models 4890, 5880, 5890, 6850, 6890

Description	Pk. of 1 Cat. No.	Pk. of 5 Cat. No.	Pk. of 25 Cat. No.
Split (78.5 mm x 6.3 mm O.D. x 4.0 mm I.D.)			
Cup - unpacked (replaces HP #18740-80190)	2051001	2051005	2051025
Cup - wool packed (replaces HP #18740-80190)	2048201	2048205	2048225
Cup - packed w/ 10% OV-1® on Chromosorb® W HP (replaces HP #18740-60840)	2055101	2555105	2555125
Split/Splitless (78.5 mm x 6.3 mm O.D.)			
4 mm I.D., wool packed (replaces HP #19251-60540)	2048601	2048605	2048625
FocusLiner, 4.0 mm I.D.	2879801-U	2879805-U	2879825-U
FocusLiner with single taper, 4.0 mm I.D.	2879901-U	2879905-U	2879925-U
FocusLiner with recessed gooseneck, 4.0 mm I.D.	2879701-U	2879705-U	2879725-U
FAST FocusLiner, 2.3 mm I.D.	2879601-U	2879605-U	2879625-U
FAST FocusLiner with single taper, 2.3 mm I.D.	2879501-U	2879505-U	2879525-U
Splitless (78.5 mm x 6.5 mm O.D.)			
2 mm I.D. (replaces HP #18740-80220 or 5181-8818)	2051301	2051305	2051325
Dual tapered (replaces HP #5181-3315)	2048501	2048505	2048525
Tapered - unpacked (replaces HP #5181-3316)	2046601	2046605	2046625
Tapered - wool packed (replaces HP #5062-3587)	2047801	2047805	2047825
Direct (78.5 mm x 6.3 mm O.D.)			
SPME, 0.75 mm I.D.	2637501	2637505	2637525

FocusLiners are packed with quartz wool.

Vials and Caps for Agilent LC Autosampler - Models 7673, 7683

Description	Pk. of 100 Cat. No.	Pk. of 1000 Cat. No.
Agilent 1050, 1090 & 1100		
Clear Glass		
Crimp cap vial, 2 mL, wide opening	27058	27059
Crimp cap vial, 2 mL, wide opening, marking spot	27062-U	27063
ABC screw cap vial, 2 mL	27329	27554
ABC screw cap vial, 2 mL, marking spot	27330	27556
Screw cap vial, 2 mL, standard opening (4.6 mm)	27078	27079
Screw cap vial, 2 mL, standard opening, marking spot	27080-U	27081-U
Aluminum crimp cap, 11 mm, with silicone/PTFE red septa	SU860094	SU860016
Aluminum crimp cap, 11 mm, with PTFE/red rubber septa	27102-U	33233-U
Amber Glass		
Crimp cap vial, 2 mL, wide opening	27064	27065
Crimp cap vial, 2 mL, wide opening, marking spot	27066-U	27067-U
ABC screw cap vial, 2 mL	27331	27555-U
ABC screw cap vial, 2 mL, marking spot	27332	27557
Screw cap vial, 2 mL, standard opening (4.6 mm)	27083-U	27087-U
Screw cap vial, 2 mL, standard opening, marking spot	27084-U	27085-U
Open top screw cap, 9 mm, with silicone/PTFE red septa	27326	27558
Open top screw cap, 9 mm, PP, natural rubber red-orange	27327	27559
Screw cap black, 9 mm, with PTFE red/silicone/PTFE red septa	507407	—
PP open to screw cap, 8 mm, black, PTFE/silicone	27262	—
PP open top screw cap, 8 mm, w/out septa	27052	24764
Septa, 8 mm, PTFE/red rubber	27132	—
Aluminum crimp cap, 11 mm, with silicone/PTFE red septa	SU860094	SU860016
Aluminum crimp cap, 11 mm, with PTFE/red rubber septa	27102-U	33233-U
Agilent HS7694		
Flat bottom headspace vial, 10 mL, 23 x 46 mm	27198	—
Flat bottom headspace vial, 20 mL, 23 x 75 mm	27199	—
Crimp seal open center (20 mm), PTFE white/silicone beige	27362	27375
Crimp seal pressure release (20 mm), PTFE/silicone	27455-U	—
Aluminum cap plain, 10 mm center hole, Pharma-Fix septum, 3.0 mm	SU860011	—

PerkinElmer

Inlet Liners for PerkinElmer GCs -
AUTOSYSTEM PSS

Description	Pk. of 1 Cat. No.	Pk. of 5 Cat. No.	Pk. of 25 Cat. No.
AUTOSYSTEM™ Split/Splitless Capillary Injector			
Borosilicate, 4 mm I.D. (replaces PE #N610-1052, N612-1001)	2630901	2630905	2630925
Borosilicate, 2 mm I.D. (replaces PE #N612-1002)	—	2631105	2631125
Packed w/deactivated wool, 4 mm	2631001	2631005	2631025
SPME, 0.75 mm I.D.	—	2631205	—
AUTOSYSTEM and Clarus 500 Split/Splitless (92 mm x 6.2 mm O.D.)			
FocusLiner, 4.0 mm I.D.	2879201-U	2879205-U	—
FocusLiner with single taper, 4.0 mm I.D.	2879101-U	2879105-U	—
Programmed Split/Splitless Injector (PSS)			
Split, 2 mm (replace PE #N612-1004)	2631301	2631305	2631325
Splitless, 1 mm (replace PE #N612-1006)	—	2631405	—
On-column (replaces PE #N610-1539)	—	2631505	—

FocusLiners are packed with quartz wool.

Vials and Caps for PerkinElmer Autosampler

Description	Pk. of 100 Cat. No.	Pk. of 1000 Cat. No.
AI-1, AUTOSYSTEM, Integral 4000, ISS-100/200		
Clear Glass		
Crimp cap vial, 2 mL, wide opening	27058	27059
Crimp cap vial, 2 mL, wide opening, marking spot	27062-U	27063
Aluminum crimp cap, 11 mm, with silicone/PTFE red septa	SU860094	SU860016
Aluminum crimp cap, 11 mm, with PTFE/red rubber septa	27102-U	33233-U
Amber Glass		
Crimp cap vial, 2 mL, wide opening	27064	27065
Crimp cap vial, 2 mL, wide opening, marking spot	27066-U	27067-U
ABC screw cap vial, 2 mL	27331	27555-U
ABC screw cap vial, 2 mL, marking spot	27332	27557
Open top screw cap, 9 mm, with silicone/PTFE red septa	27326	27558
Open top screw cap, 9 mm, PP, natural rubber red-orange/PTFE	27327	27559
Open top screw cap, 9 mm, with PTFE red/silicone/PTFE red septa	507407	—
Thermogreen LB-2 Septa		
Preconditioned - lowest bleed septa available. Max temperature 350 °C.		

Description	Pk. of 50 Cat. No.
Agilent 5880/90, 6890, OCI ports, 5 mm	20638
Agilent 5700 series, 5880 - Varian packed column injectors, 9.5 mm	20652
Agilent 5880A, 5880 - PerkinElmer series 900 & 990, 8000, AUTOSYSTEM autosampler - Varian SPI injectors and capillary injectors, 11 mm	20654
Varian Saturn GC-MS and capillary injectors, 11.5 mm	23154
Pre-Drilled Thermogreen™ LB-2 Septa for SPME	
9.5 mm	23162-U
11 mm	23168
5mm / 3/16"	
9.5mm / 3/8"	
11mm / 7/16"	
11.5mm / 11/24"	

Shimadzu

Inlet Liners for Shimadzu GCs - Models 9A/AM/15/15A/16/17A

Vials and Caps for Shimadzu Autosampler (cont.d)

Description	Pk. of 1 Cat. No.	Pk. of 5 Cat. No.	Pk. of 25 Cat. No.
Models 14/15A/16 with SPL-14 Injectors (99 mm x 5 mm O.D.)			
Split liner (replaces Shimadzu #221-32544-01), 3 mm I.D.	—	2633305	2633325
Splitless liner (replaces Shimadzu #221-32544-03), 3 mm I.D.	—	2633405	2633425
SPME liner, 0.75 mm I.D.	2633501	2633505	—
Models 17A with SPL-17 Injectors (95 mm x 5 mm O.D.)			
Split liner (replaces Shimadzu #221-41444-01), 3.4 mm I.D.	2633601	2633605	2633625
Split liner packed with glass wool, 3 mm I.D.	—	2632705	2632725
Split/Splitless FocusLiner, 3.4 mm I.D.	2878601-U	2878605-U	—
Split/Splitless FocusLiner w/single taper, 3.4 mm I.D.	2878401-U	2878405-U	—
SPME liner, 0.75 mm I.D.	2633901	2633905	2633925
WBC - internal tapered, 2.6 mm I.D. (replaces Shimadzu #221-41599-00)	2633801	2633805	2633825
GC-2010 System (95 mm x 5 mm O.D.)			
Direct FocusLiner, 3.4 mm I.D.	2877601-U	2877605-U	—

Vials and Caps for Shimadzu Autosampler

Description	Pk. of 100* Cat. No.	Pk. of 1000 Cat. No.
AOC-14, 1400, SIL-2AS, SIL-6A, SIL-6B/SIL-9A		
Clear Glass		
Crimp cap vial, 2 mL, wide opening	27058	27059
Crimp cap vial, 2 mL, wide opening, marking spot	27062-U	27063
Aluminum crimp cap, 11 mm, with silicone/PTFE red septa	SU860094	SU860016
Aluminum crimp cap, 11 mm, with PTFE/red rubber septa	27102-U	33233-U
ABC screw cap vial, 2 mL	27329	27554
ABC screw cap vial, 2 mL, marking spot	27330	27556
Open top screw cap, 9 mm, with silicone/PTFE red septa	27326	27558
Open top screw cap, 9 mm, PP, natural rubber red-orange/PTFE	27327	27559
Open top screw cap, 9 mm, with PTFE red/silicone/ PTFE red septa	507407	—
Screw cap vial, 2 mL, standard opening, 4.6 mm	27078	27079
Screw cap vial, 2 mL, standard opening, marking spot	27080-U	27081-U
PP open top screw cap, 8 mm, black, PTFE/silicone	27262	—
PP open top screw cap, 8 mm, w/out septa	27052	24764
Septa, 8 mm, PTFE/red rubber	27132	—
Crimp/snap-ring vial, 2 mL, marking spot	27249	27250-U
Snap ring cap, transparent, 11 mm, center hole, with PTFE/silicone liner	24758	—
Snap ring cap (PTFE/red rubber)	24756	—
Amber Glass		
Crimp cap vial, 2 mL, wide opening	27064	27065
Crimp cap vial, 2 mL, wide opening, marking spot	27066-U	27067-U
Aluminum crimp cap, 11 mm, with silicone/PTFE red septa	SU860094	SU860016
Aluminum crimp cap, 11 mm, with PTFE/red rubber septa	27102-U	33233-U
ABC screw cap vial, 2 mL	27331	27555-U
ABC screw cap vial, 2 mL, marking spot	27332	27557
Screw cap, 9 mm, with PTFE red/silicone/PTFE red septa	507407	—
Screw cap vial, 2 mL, standard opening, 4.6 mm	27083-U	27087-U
Screw cap vial, 2 mL, standard opening, marking spot	27084-U	27085-U
Crimp/snap-ring vial, 2 mL, marking spot	27251	27252

*Pack of 100, except where noted.

Ferrules

Supeltex™ ferrules form leaktight seals without sticking to your column. Clean sharp profile with minimal flash designed for GC specifications. No sulfur contamination.

Manufacturer	Ferrule Type	Temp. Limit	Package Size	0.20-0.25mm Column ID	0.32mm Column ID	0.53mm Column ID
Agilent	M-2A	400°C	10	24803-U	24802-U	24801-U
			50	24807-U	24806-U	24804-U
CapSeal Bullet	M-4	450°C	10	24811-U	24809-U	24808-U
			50	24819-U	24813-U	24812-U
PerkinElmer or Varian	CapSeal Bullet	450°C	12	23864	23865	23866
			48	23867	23868	23869
	M-2A	400°C	10	24826-U	24824-U	24823-U
			50	28022-U	28023-U	28024-U
	M-4	450°C	10	28025-U	28026-U	28027-U
			50	28028-U	28031-U	28032-U
	CapSeal Bullet	450°C	12	23488	23489	23490
			48	23493	23494-U	23495

M-2A Composition: DuPont VESPEL™ SP-21 (85% polyimide/15% graphite). Characteristics : High resuability. Won't stick to metal or glass.

M-4 Composition: Flexible Graphite. Characteristics : Maximum sealing surface contact, reduced risk of column contamination at installation.

CapSeal Bullet: graphite in an aluminum base

Characteristics: Reusable ferrules consist of a graphite material captured in an aluminum base. This unique design keeps the ferrule from adhering to the fitting, making it easy to remove.

Trademarks

Agilent – Agilent Technologies

AUTOSYSTEM – PerkinElmer, Corp.

Chromosorb – Manville Corp.

CombiPAL – CTC Analytics

FocusLiner - SGE International Pty Ltd.

OV – Ohio Valley Specialty Chemical Co.

Supeltex, Thermogreen, CapSeal Bullet – Sigma-Aldrich Biotechnology LP

Teflon, VESPEL – E.I. duPont de Nemours & Co., Inc.

Varian and Chrompack

Inlet Liners for Varian and Chrompack GCs - Models 3400, 3600, 3700 Series

Vials and Caps for Varian Autosampler

Description	Pk. of 1 Cat. No.	Pk. of 5 Cat. No.	Pk. of 25 Cat. No.	Description	Pk. of 100 Cat. No.	Pk. of 1000. Cat. No.	
1075/1077 Injectors							
Split (72 mm x 6.3 mm O.D.)							
Fritted (replaces Varian #01-900109-03 or 16-000830-01), 4 mm I.D.	2050501	2050505	2050525	Crimp cap vial, 2 mL, wide opening	27058	27059	
Single taper, 4.0 mm I.D.	2875601-U	2875605-U	—	Crimp cap vial, 2 mL, wide opening, marking spot	27062-U	27063	
FocusLiner, 4.0 mm I.D.	2875401-U	2875405-U	—	Aluminum crimp cap, 11 mm, with silicone/PTFE red septa	SU860094	SU860016	
FocusLiner with single taper, 4.0 mm I.D.	2874801-U	2874805-U	—	Aluminum crimp cap, 11 mm, with PTFE/red rubber septa	27102-U	33233-U	
FocusLiner, 2.3 mm I.D.	2874701-U	2874705-U	—	Magnetic crimp cap, 11 mm, with silicone/PTFE red septa	SU860096	SU860018	
FocusLiner with top-end restriction, 4.0 mm I.D.	2874901-U	2874905-U	—	Magnetic crimp cap, 11 mm, with PTFE/silicone/PTFE red septa	SU860095	SU860017	
Splitless (74 mm x 6.3 mm O.D.)							
FocusLiner with top-end restriction, 4.0 mm I.D.	2874601-U	2874605-U	—	Crimp/snap-ring vial, 2 mL	27249	27250-U	
Straight (replaces Varian #01-900109-05 or 03-949437-90), 2 mm I.D.	2050201	2050205	2050225	Snap-ring cap transparent, 11 mm, 6 mm center hole, silicone white/PTFE red, 1.0 mm	24758	—	
SPME liner, 0.75mm ID	2635801	2635805	2635825	Snap ring cap (PTFE/red rubber)	24756	—	
Split/Splitless (54 mm x 5 mm O.D.)							
FocusLiner with single taper, 3.4 mm I.D.	2875701-U	2875705-U	—	ABC screw cap vial, 2 mL	27329	27554	
1078/1079 Injectors							
Split (54 mm x 5 mm O.D. x 3.4 mm I.D.)							
Fritted (replaces Varian #03-918464-01)	2637201	2637205	2637225	ABC screw cap vial, 2 mL, marking spot	27330	27556	
Unpacked (replaces Varian #03-918464-00)	2637101	2637105	2637125	Open top screw cap, 9 mm, with silicone/PTFE red septa	27326	27558	
Packed (replaces Varian #03-918956-00)	2637301	2637305	2637325	Open top screw cap, 9 mm, PP, natural rubber red-orange/ PTFE	27327	27559	
Splitless (54 mm x 5 mm O.D.)							
Unpacked (replaces Varian #03-918466-00), 2 mm I.D.	2637401	2637405	2637425	Open top screw cap, 9 mm, with PTFE red/silicone/PTFE red septa	507407	—	
SPME (replaces Varian #03-925330-00), 0.8 mm I.D.	2637801	2637805	—	Screw cap vial, 2 mL, standard opening (4.6 mm)	27078	27079	
Temperature Program Mode, packed (replaces Varian #03-925350-00), 2 mm I.D.	2637701	2637705	2637725	Screw cap vial, 2 mL, standard opening, marking spot	27080-U	27081-U	
Split/Splitless (54 mm x 5 mm O.D.)							
FocusLiner with single taper, 3.4 mm I.D.	2875701-U	2875705-U	—	PP open to screw cap, 8 mm, black, PTFE/silicone	27262	—	
FocusLiner with dual taper, 3.4 mm I.D.	2875501-U	2875505-U	—				
1093/1094 Injectors							
(54 mm x 4.6 mm O.D.)							
High linearity for 0.25 and 0.32 mm I.D. columns (replaces Varian #03-918332-01 / 01-900066-18)	2636301	2636305	2636325	Amber Glass	27064	27065	
Flash, on-column for 0.53 mm I.D. columns, SPME (replaces Varian #03-918332-02 / 01-900109-07 / 01- 900066-19)	2636401	2636405	2636425	Crimp cap vial, 2 mL, wide opening	27066-U	27067-U	
Varian Model CP-1177 Injector							
Split (78.5 mm x 6.3 mm O.D. x 4.0 mm I.D.)							
Straight through	2879401-U	2879405-U	2879425-U	Crimp cap vial, 2 mL, wide opening, marking spot	27251	27252	
Cup, unpacked (replaces CP #18740-80190)	2051001	2051005	2051025	Snap ring cap (PTFE/red rubber)	24756	—	
Cup, wool packed (replaces CP #18740-80190)	2048201	2048205	2048225	ABC screw cap vial, 2 mL	27331	27555-U	
Cup, packed w/10% OV-1 on 80/100 Chromosorb W HP (replaces CP #18740-60840)	2055101	2055105	2055125	ABC screw cap vial, 2 mL, marking spot	27332	27557	
Split/Splitless (78.5 mm x 6.3 mm O.D.)							
Wool packed, 4 mm I.D., (replaces CP #19251-60540)	2048601	2048605	2048625	Screw cap vial, 2 mL, standard opening (4.6 mm)	27083-U	27087-U	
FocusLiner with single taper, 4.0 mm I.D.	2879901-U	2879905-U	2879925-U	Screw cap vial, 2 mL, standard opening	27084-U	27085-U	
FocusLiner, 4.0 mm I.D.	2879801-U	2879805-U	2879825-U				
FocusLiner with recessed gooseneck, 4.0 mm I.D.	2879701-U	2879705-U	2879725-U				
FAST FocusLiner, 2.3 mm I.D.	2879601-U	2879605-U	2879625-U				
FAST FocusLiner with single taper, 2.3 mm I.D.	2879501-U	2879505-U	2879525-U				
Splitless (78.5 mm x 6.5 mm O.D.)							
Dual tapered, 4.0 mm I.D.	2048501	2048505	2048525	Headspace Vials, Screw Thread Design, Round Bottom	27294	27295	
Tapered (unpacked), 4.0 mm I.D.	2046601	2046605	2046625	Clear glass for SPME, 10 mL	SU860099	—	
Tapered, wool packed, 4.0 mm I.D.	2047801	2047805	2047825	Amber glass for SPME, 10 mL	SU860100	—	
2 mm I.D. (replaces CP #18740-80220)	2051301	2051305	2051325	Clear glass for SPME, 20 mL	SU860097	—	
Direct							
SPME, 0.75 mm ID (78.5 mm x 6.3 mm O.D.)	2637501	2637505	2637525	Amber glass for SPME, 20 mL	SU860098	—	
1.5 mm ID (78.5 mm x 6.5 mm O.D.)	2051701	2051705	2051725				
Screw Caps for Headspace Vials, Screw Thread Design							
Screw cap, 18 mm, w/PTFE/silicone septa, 35 ° shore A				Screw caps for Headspace Vials, Screw Thread Design	SU860101	—	
Screw cap, 18 mm, w/PTFE/butyl septa				Screw cap, 18 mm, w/PTFE/butyl septa	SU860102	—	
Screw cap, 18 mm, w/PTFE/silicone septa, 60 ° shore A				Screw cap, 18 mm, w/PTFE/silicone septa, 60 ° shore A	SU860103	—	

FocusLiners are packed with quartz wool.



CHROMATOGRAPHY PRODUCTS FOR ANALYSIS AND PURIFICATION

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Contact our Technical Service Department for
expert answers to your questions.