

















C O L U M N I N S T A L L S T H I S E N D

Splitless Liners for Agilent GCs	Benefits/Uses	ID* OD x Length	Similar to Agilent part #	ea.	cat.# price 5-pk.	25-pk.
 2mm Splitless	trace samples < 2µL	2.0mm 6.5mm x 78.5mm	5181-8818 (ea.) 5183-4703 (5-pk.) 5183-4704 (25-pk.)	20712	20713	20714
 4mm Splitless	trace samples > 2µL	4.0mm 6.5mm x 78.5mm	210-3003 (ea.) 210-3003-5 (5-pk.)	20772	20773	20774
 4mm Splitless w/Wool	trace samples > 2µL	4.0mm 6.5mm x 78.5mm	19251-60540 (ea.) 5183-4691 (5-pk.) 5183-4692 (25-pk.)	22400	22401	22402
 2mm Splitless (quartz)	trace samples < 2µL	2.0mm 6.5mm x 78.5mm	18740-80220 (ea.) 5183-4707 (5-pk.)	20914	20915	—
 4mm Splitless (quartz)	trace samples > 2µL	4.0mm 6.5mm x 78.5mm	—	20912	20913	—
 4mm Splitless (quartz) w/Wool	trace samples > 2µL	4.0mm 6.5mm x 78.5mm	—	22403	22404	—
 Gooseneck Splitless (2mm)	trace samples < 2µL	2.0mm 6.5mm x 78.5mm	—	20795	20796	20797
 Gooseneck Splitless (4mm)†	trace samples > 2µL	4.0mm 6.5mm x 78.5mm	5181-3316 (ea.) 5183-4695 (5-pk.) 5183-4696 (25-pk.)	20798	20799	20800
 Gooseneck Splitless (4mm) w/Wool†	trace samples > 2µL	4.0mm 6.5mm x 78.5mm	5062-3587 (ea.) 5183-4693 (5-pk.) 5183-4694 (25-pk.)	22405	22406	22407
 Double Gooseneck Splitless (4mm)	trace, active samples > 2µL	4.0mm 6.5mm x 78.5mm	5181-3315 (ea.) 5183-4705 (5-pk.) 5183-4706 (25-pk.)	20784	20785	20786
 Cyclo Double Gooseneck (2mm)	trace, active, dirty samples < 2µL	2.0mm 6.5mm x 78.5mm	—	20907	20908	—
 Cyclo Double Gooseneck (4mm)	trace, active, dirty samples > 2µL	4.0mm 6.5mm x 78.5mm	—	20895	20896	20997
 Recessed Gooseneck (2mm)**	base easily packs with wool for dirty samples < 2µL	2.0mm 6.5mm x 78.5mm	—	20980	20981	20982
 Recessed Gooseneck (4mm)**	base easily packs with wool for dirty samples > 2µL	4.0mm 6.5mm x 78.5mm	—	20983	20984	20985
 Recessed Gooseneck (4mm) w/Wool**	base easily packs with wool for dirty samples > 2µL	4.0mm 6.5mm x 78.5mm	—	22408	22409	22410
 Recessed Double Gooseneck (4mm)**	trace, active samples > 2µL	4.0mm 6.5mm x 78.5mm	—	20986	20987	20988

*Nominal ID at syringe needle expulsion point.

**Use with two-hole ferrule for dual-column analysis.

†Use this liner for increased sensitivity.

All liners are
100%
deactivated

All liners are shipped intermediate polarity (IP) deactivated unless otherwise requested.



Restek can provide any of the liners shown deactivated according to any of our three proprietary processes, including our highly inert Siltek® coating. The processes are described on **page 140** and ordering information is on **page 143**.



















Packing materials, including wool and CarboFrits™, can be provided in any liner—subject to the liner ID and geometry. Packing materials are described on **page 141** and ordering information is on **pages 143-144**.



Siltek® Treated Liners

C O L U M N I N S T A L L S T H I S E N D

Split Liners for Agilent GCs	Benefits/Uses	ID* OD x Length	Similar to Agilent part#	ea.	cat.# /price 5-pk.	25-pk.
 1mm Split**	for purge & trap inlet splitting or sample <math><1\mu\text{L}</math>	1.0mm 6.3mm x 78.5mm	18740-80200 (ea.) 5183-4709 (5-pk.)	20972	20973	—
 4mm Split w/Wool	universal, use with Agilent 7673 autosampler	4.0mm 6.3mm x 78.5mm	19251-60540 (ea.) 5183-4691 (5-pk.) 5183-4692 (25-pk.)	20781	20782	20783
 Laminar Cup Splitter	high MW compounds	4.0mm 6.3mm x 78.5mm	—	20801	20802	—
 mini-Lam Split	high MW compounds	4.0mm 6.3mm x 78.5mm	—	20990	20991	—
 Cup Splitter	high & low MW compounds	4.0mm 6.3mm x 78.5mm	18740-80190 (ea.) 5183-4699 (5-pk.)	20709	20710	—
 Cyclosplitter	dirty samples, many injections before cleaning required	4.0mm 6.3mm x 78.5mm	—	20706	20707	20708
 2mm Split Precision Liner w/Wool	dirty samples, trace samples	2.0mm 6.3mm x 78.5mm	—	20823	20824	—
 4mm Split Precision Liner w/Wool	dirty samples, trace samples	4.0mm 6.3mm x 78.5mm	210-4004-5 (5-pk.)	21022	21023	20979
 4mm Gooseneck Precision Liner	dirty samples, trace samples	4.0mm 6.3mm x 78.5mm	210-4022-5 (5-pk.)	22983	22984	22985
Split/Splitless Liners for Agilent GCs						
 Low Pressure Drop Liner w/Wool	universal	4.0mm 6.3mm x 78.5mm	—	21032	21033	—
 Low Pressure Drop Liner w/Wool	universal	4.0mm 6.3mm x 78.5mm	5183-4647 (ea.) 5183-4701 (5-pk.)	20994	20995	20996
CIS4 and PTV Liners for Agilent GCs						
 PTV On-Column Liner	allows on-column injection with a 0.53mm ID column	1.7mm 3.0mm x 71mm	—	24976	24977	—
 Straight Glass	general use	2.0mm 3.0mm x 71mm	5183-2036	—	—	21157
 Baffled Glass	active compounds, drugs, pesticides	1.5mm 3.0mm x 71mm	5183-2037	—	—	21704
 Glass w/Wool	large volume injections	2.0mm 3.0mm x 71mm	5183-2038	—	—	21156
SPME Liners for Agilent GCs						
 SPME Liner	ideal for low-volume SPME applications	0.75mm 6.35mm x 78.5mm	—	—	21110	21111

*Nominal ID at syringe needle expulsion point.
**Use this liner for increased sensitivity.

COLUMN INSTALLS THIS END

DI Liners for Agilent GCs** (For 0.25/0.32/0.53mm ID Columns)	Benefits/Uses	ID* OD x Length	Similar to Agilent part #	ea.	cat.# / price 5-pk.	25-pk.
Drilled Uniliner (hole near top)	trace, active samples, high recovery & linearity	4.0mm 6.3mm x 78.5mm	—	21054	21055	20998
Drilled Uniliner (hole near bottom)	trace, active samples, high recovery & linearity	4.0mm 6.3mm x 78.5mm	G1544-80730	20756	20771	—
Double Gooseneck Drilled Uniliner (hole near top)	trace, active samples, high recovery & linearity	4.0mm 6.3mm x 78.5mm	—	20508	20509	—
Double Gooseneck Drilled Uniliner (hole near bottom)	trace, active samples, high recovery & linearity	4.0mm 6.3mm x 78.5mm	G1544-80700	20954	20989	—
Drilled Cyclo-Uniliner (hole near top)	trace, dirty, high MW, active samples, high recovery & linearity	4.0mm 6.3mm x 78.5mm		22979	22980	—
1mm Uniliner	trace, active samples, samples <1µL	1.0mm 6.3mm x 78.5mm		21052	21053	
Uniliner	trace, active samples, high recovery & linearity	4.0mm 6.3mm x 78.5mm		20335	20336	
Cyclo-Uniliner	trace, dirty, high MW active samples, high recovery & linearity	4.0mm 6.3mm x 78.5mm		20337	20338	
Open-top Uniliner w/Wool	trace, dirty, active samples, high recovery & linearity	4.0mm 6.3mm x 78.5mm		20843	20844	

*Nominal ID at syringe needle expulsion point.

**Hole in Drilled Uniliner liner makes direct injection possible with EPC-equipped Agilent 6890 & 7890 GCs!

tech tip

Drilled Uniliner® Liners

Use the Drilled Uniliner® liner with the hole near the bottom for semivolatiles analysis or when compounds of interest could be affected by a tailing solvent peak. Use the Drilled Uniliner® liner with the hole near the top for chlorinated pesticides analysis, aqueous injections, as well as for analysis in which the compounds of interest elute away from the solvent peak.

All liners are
100% deactivated

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Packing materials, including wool and CarboFrits™, can be provided in any liner—subject to the liner ID and geometry. Packing materials are described on **page 141** and ordering information is on **pages 143-144**.



Siltek® Treated Liners



Siltek® Metal Inlet Liners for Agilent GCs

- Won't crack, chip, or break like glass liners.
- Excellent response for pesticides, phenols, and other active compounds.

Liner Type (5.2mm ID x 6.3mm OD x 78.5mm)	5-pk.	25-pk.
Cyclo/Single Gooseneck	20974	20975
Single Gooseneck	21702	21703
Cyclosplitter	20726	20729
Split/Splitless w/Wool	21700	21701