Other Deactivations

Intermediate Polarity (IP) Deactivation

- Phenylmethyl-deactivated surface for better recovery of polar and nonpolar compounds.
- Compatible with most common solvents.
- Our standard deactivation—every clear Restek® liner is IP deactivated unless otherwise requested.

Siltek®-Deactivation*

For Siltek®-deactivated inlet liners, add the corresponding suffix number to the liner catalog number. (Cannot be used with Sky® liners.)

qty.	Siltek Liner	Siltek Liner w/Wool	Siltek Liner w/CarboFrit
5-pk.	-214.5	-213.5	-216.5
25-pk.	-214.25	-213.25	-216.25

^{*}There is an additional cost for these deactivations. Contact your Restek representative for pricing.



For base-deactivated inlet liners, add the corresponding suffix number to the liner catalog number. (Cannot be used with Sky® liners.)

qty.	Base-Deactivated Liner	Base-Deactivated Liner w/ Base-Deactivated Wool	Base-Deactivated Liner w/CarboFrit
5-pk.	-210.5	-211.5	-229.5
25-pk.	-210.25	-211.25	-229.25

^{*}There is an additional cost for these deactivations. Contact your Restek representative for pricing.

Don't Forget Routine Maintenance

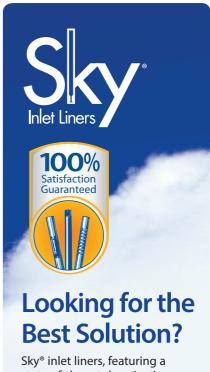
Inlet liners are the key to good injection port maintenance; changing them regularly helps prevent the following problems:

- Sample degradation resulting in poor response.
- Sample adsorption resulting in poor peak shape (tailing).
- Sample discrimination.
- Irreproducibility.
- Extraneous peaks from contamination or cored septum particles.

Finally, be sure to condition your liners at 20 °C higher than the operating inlet temperature for a minimum of 10 minutes to prepare them for use. By following these basic tips, you can avoid inlet problems and improve chromatographic performance.



Sky® inlet liners feature Restek's premier deactivation.



Sky® inlet liners, featuring a state-of-the-art deactivation, give you the inertness you need for accurate, reproducible trace-level results.

See pages 193-202 for details.



GC ACCESSORIES | INLET LINERS Inlet Liners for Agilent GCs

Liners for Agilent GCs

_	Splitless Liners for Agilent GCs	Benefits/Uses	ID* OD x Length	Similar to Agilent Part #	ea. cat.#	5-pk. cat.#	25-pk. cat.#
	2 mm Splitless	trace samples <2 μL	2.0 mm 6.5 mm x 78.5 mm	5181-8818 (ea.) 5183-4703 (5-pk.) 5183-4704 (25-pk.)	20712	20713	20714
	4 mm Splitless	trace samples >2 μL	4.0 mm 6.5 mm x 78.5 mm	210-3003 (ea.) 210-3003-5 (5-pk.)	20772	20773	20774
	4 mm Splitless w/Deactivated Wool	trace samples >2 μL	4.0 mm 6.5 mm x 78.5 mm	19251-60540 (ea.) 5183-4691 (5-pk.) 5183-4692 (25-pk.)	22400	22401	22402
	5 mm Splitless	accommodates more polar solvents and lower MW solvents	5.0 mm 6.5 mm x 78.5 mm		22975	22976	
	2 mm Splitless (Quartz)	trace samples <2 μL	2.0 mm 6.5 mm x 78.5 mm	18740-80220 (ea.) 5183-4707 (5-pk.)	20914	20915	
	4 mm Splitless (Quartz)	trace samples >2 μL	4.0 mm 6.5 mm x 78.5 mm		20912	20913	
E N D	4 mm Splitless w/Deactivated Wool (Quartz)	trace samples >2 μL	4.0 mm 6.5 mm x 78.5 mm		22403	22404	
THIS	Single Taper Splitless (2 mm)	trace samples <2 μL	2.0 mm 6.5 mm x 78.5 mm		20795	20796	20797
	Single Taper Splitless (4 mm)	trace samples >2 μL	4.0 mm 6.5 mm x 78.5 mm	5181-3316 (ea.) 5183-4695 (5-pk.) 5183-4696 (25-pk.)	20798	20799	20800
INST	Single Taper Splitless (4 mm) w/Deactivated Wool†	trace samples >2 µL	4.0 mm 6.5 mm x 78.5 mm	5062-3587 (ea.) 5183-4693 (5-pk.) 5183-4694 (25-pk.)	22405	22406	22407
OLUMN INSTALLS	Single Taper Splitless (5 mm)	accommodates more polar solvents and lower MW solvents	5.0 mm 6.5 mm x 78.5 mm	` ,	22973	22974	
100 ·	Double Taper Splitless (4 mm)	trace, active samples >2 μL	4.0 mm 6.5 mm x 78.5 mm	5181-3315 (ea.) 5183-4705 (5-pk.) 5183-4706 (25-pk.)	20784	20785	20786
	Cyclo Double Taper (2 mm)	trace, active, dirty samples <2 µL	2.0 mm 6.5 mm x 78.5 mm		20907	20908	
	Cyclo Double Taper (4 mm)	trace, active, dirty samples > 2 µL	4.0 mm 6.5 mm x 78.5 mm		20895	20896	20997
	Recessed Single Taper (2 mm)**	base easily packs with wool for dirty samples <2 μL	2.0 mm 6.5 mm x 78.5 mm		20980	20981	20982
	Recessed Single Taper (4 mm)**	base easily packs with wool for dirty samples >2 μL	4.0 mm 6.5 mm x 78.5 mm		20983	20984	20985
	Recessed Single Taper (4 mm) w/Deactivated Wool**	base easily packs with wool for dirty samples >2 μL	4.0 mm 6.5 mm x 78.5 mm		22408	22409	22410
	Recessed Double Taper (4 mm)**	trace, active samples >2 μL	4.0 mm 6.5 mm x 78.5 mm		20986	20987	



^{*}Nominal ID at syringe needle expulsion point.
**Use with two-hole ferrule for dual-column analysis.

Liners for Agilent GCs, cont.

COLUMN INSTALLS THIS END

Split Liners for Agilent GCs	Benefits/Uses	ID* OD x Length	Similar to Agilent Part#	ea. cat.#	5-pk. cat.#	25-pk. cat.#
1	for purge & trap	OD X Length	Agricile Full Cir	cutiii	cucin	cutin
9	inlet splitting	1.0 mm	18740-80200 (ea.)	20972	20973	
1 mm Split**	or sample <1 μL	6.3 mm x 78.5 mm	5183-4709 (5-pk.)			
	universal,		19251-60540 (ea.)			
A CONTROL OF A DAY OF	use with Agilent	4.0 mm	5183-4691 (5-pk.)	20781	20782	20783
4 mm Split w/Deactivated Wool	7673 autosampler	6.3 mm x 78.5 mm	5183-4692 (25-pk.)			
		4.0 mm		20801	20802	
Laminar Cup Splitter	high MW compounds	6.3 mm x 78.5 mm		20001	20002	
	<u> </u>					
		4.0 mm		20990	20991	
mini-Lam Split	high MW compounds	6.3 mm x 78.5 mm				
Cup Splitter	high & low MW compounds	4.0 mm 6.3 mm x 78.5 mm	18740-80190 (ea.)	20709	20710	
Cup splitter	dirty samples,	111111 C.01 X 111111 C.0	5183-4699 (5-pk.)			
NATANATON I	many injections	4.0 mm		20706	20707	20708
Cyclo	before cleaning required	6.3 mm x 78.5 mm		20100	20101	20100
		2.0 mm		20823	20824	
2 mm Split Precision Liner w/Deactivated Wool	dirty samples, trace samples	6.3 mm x 78.5 mm				
			040 / 00/ 5 /5 1 }		04000	00070
4 mm Split Precision Liner w/Deactivated Wool	dirty samples, trace samples	4.0 mm	210-4004-5 (5-pk.)	21022	21023	20979
4 min spiler recision Lines wy beactivated wood	unity samples, trace samples	0.5 111111 C.5 111111	210-4022-5, 5183-4712			
F A A		4.0 mm	(5-pk.)	22983	22984	22985
4 mm Single Taper Precision Liner w/Deactivated Wool	dirty samples, trace samples	6.3 mm x 78.5 mm	V- 1- 7			
Split/Splitless Liners		ID*	Similar to		el.	25
for Agilent GCs	Benefits/Uses	OD x Length	Agilent Part #	ea. cat.#	5-pk. cat.#	25-pk. cat.#
To Agreed des	Delicita, 03c3	OD A Length	Agitellel aler	cucin	Cut.n	cucin
		4.0 mm		21032	21033	
Low Pressure Drop Precision Liner w/Deactivated Wool	universal	6.3 mm x 78.5 mm				
			5183-4647, 5183-4711 (ea.)			
Low Pressure Drop Liner w/Deactivated Wool	universal	4.0 mm 6.3 mm x 78.5 mm	5183-4701, 5183-4712 (5-pk.)	20994	20995	20996
Low Pressure Drop Liner w/Deactivated woot	universat	mm c.81 x mm c.0	5183-4713 (25-pk.)			
SPME Liners		ID*			ea.	5-pk.
for Agilent GCs	Benefits/Uses	OD x Length			cat.#	cat.#
	ideal for	0.75			21110	01111
SPME Liner	low-volume	0.75 mm 6.35 mm x 78.5 mm			21110	21111
JEINE LINE	SPME applications	וווווו כ.סו ג וווווו ככ.ט				



^{**}Use this liner for increased sensitivity.



Genuine Restek Replacement Parts for Agilent GCs

Download Genuine Restek Replacement Parts Catalog for Agilent GCs today!





GC ACCESSORIES | INLET LINERS Inlet Liners for Agilent GCs

Liners for Agilent GCs, cont.

DI Liners for Agilent GCs**		ID*	Similar to	ea.	5-pk.	25-pk.
(For 0.25/0.32/0.53mm ID Columns)	Benefits/Uses	OD x Length	Agilent Part #	cat.#	cat.#	cat.#
	trace, active samples, high recovery	4.0 mm		21054	21055	20998
Drilled Uniliner (hole near top)	& linearity	6.3 mm x 78.5 mm				
Drilled Uniliner (hole near bottom)	trace, active samples, high recovery & linearity	4.0 mm 6.3 mm x 78.5 mm	G1544-80730	20756	20771	
Double Taper Drilled Uniliner (hole near top)	trace, active samples, high recovery & linearity	4.0 mm 6.3 mm x 78.5 mm		20508	20509	
Double Taper Drilled Uniliner (hole near bottom)	trace, active samples, high recovery & linearity	4.0 mm 6.3 mm x 78.5 mm	G1544-80700	20954	20989	
Drilled Cyclo-Uniliner (hole near top)	trace, dirty, high MW, active samples, high recovery & linearity	4.0 mm 6.3 mm x 78.5 mm		22979	22980	
1 mm Uniliner	trace, active samples, samples <1 μL	1.0 mm 6.3 mm x 78.5 mm		21052	21053	
Uniliner	trace, active samples, high recovery & linearity	4.0 mm 6.3 mm x 78.5 mm		22268	22269	
Cyclo-Uniliner	trace, dirty, high MW active samples, high recovery & linearity	4.0 mm 6.3 mm x 78.5 mm		22270	22271	
Open-top Uniliner w/Deactivated Wool	trace, dirty, active samples, high recovery & linearity	4.0 mm 6.3 mm x 78.5 mm		22272	22273	

CIS4 and PTV Liners for Agilent GCs	Benefits/Uses	ID* OD x Length	Similar to Agilent Part#	10-pk. cat.#
Straight Glass	general use	2.0 mm 3.0 mm x 71 mm	5183-2036	21157
Baffled Glass	active compounds, drugs, pesticides	1.5 mm 3.0 mm x 71 mm	5183-2037	21704
Glass w/Deactivated Wool	large volume injections	2.0 mm 3.0 mm x 71 mm	5183-2038	21156

^{*}Nominal ID at syringe needle expulsion point.

 $[\]hbox{**Hole in Drilled Uniliner liner makes direct injection possible with EPC-equipped Agilent 6890 \& 7890 GCs!}$



Siltek® Metal Inlet Liners for Agilent GCs

Won't crack, chip, or break like glass liners.

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



COLUMN INSTALLS THIS END