



Inlet Liners

## True Blue Performance

**Sky**<sup>®</sup>  
Inlet Liners

Improved Data,  
Fewer Liner Changes,  
and Less Downtime

Exceptionally inert Sky<sup>®</sup> inlet liners with state-of-the-art deactivation improve trace-level analysis—*and now come with a 100% satisfaction guarantee!*



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# Sky<sup>®</sup> Inlet Liners



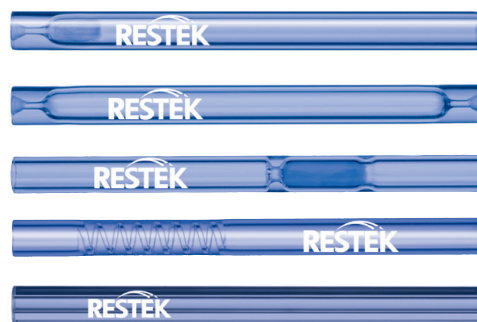
## True Blue Performance

- **Increase accuracy and precision** by preventing loss of sensitive analytes—even when using wool.
- **Achieve lower detection limits** for a wide range of active compounds.
- **Ensure liner-to-liner reproducibility** through consistent manufacturing and extensive testing.
- **100% customer satisfaction**—if a liner doesn't perform to expectations, we will replace it or credit your account.\*

When faced with complex choices, simple solutions stand out. Sky<sup>®</sup> inlet liners from Restek use a comprehensive, state-of-the-art deactivation and are the only blue liners on the market—making them an easy-to-recognize solution to common inlet problems.

The innovative deactivation used for Sky<sup>®</sup> liners results in exceptional inertness for a wide range of analyte chemistries. By reducing active sites and enhancing analyte transfer to the column, these liners increase accuracy and precision, allowing lower detection limits for many active compounds. **In addition to improved data quality, you'll benefit from fewer liner changes and less downtime for maintenance.**

Selecting the right liner for your application can be a challenging task. Sky<sup>®</sup> inlet liners make the choice simple: The comprehensive deactivation, distinctive color, and availability in popular configurations mean Sky<sup>®</sup> liners are the best choice for optimizing chromatographic performance. Regardless of your application, Sky<sup>®</sup> liners provide reliable inertness and assured performance, day after day and analysis after analysis.



Sky<sup>®</sup> liners give you the inertness you need for more accurate trace-level results.

## The Story behind Sky<sup>®</sup> Liners

For over 25 years, Restek has been a leader in the development and manufacturing of GC and LC products. With Sky<sup>®</sup> liners, we created a novel, state-of-the-art deactivation process that provides better performance, lower detection limits, and unbeatable accuracy and precision—even when using wool. We also took full control of our production stream to ensure unparalleled reliability and reproducibility. And to prove that every Sky<sup>®</sup> liner offers True Blue Performance, each one is backed by a 100% satisfaction guarantee.\*

**But, why are they blue?** Restek has always been associated with the color blue because it signifies strength, innovation, and excellence. We made Sky<sup>®</sup> liners blue because it represents the technological advancements and unmatched quality that define Restek<sup>®</sup> products and service. Choose blue—the best choice for dependable results.

\* For details on our 100% satisfaction guarantee, see page 11.

# Simple Solutions:

Exceptionally Inert Sky® Inlet Liners Improve Accuracy and Precision for a Wide Range of Analytes

Many chromatographic problems, such as poor response and missing or tailing peaks, are caused by activity in the inlet liner. These effects complicate quantification and can be particularly problematic for sensitive analytes. Sky® inlet liners from Restek offer exceptional inertness, ensuring enhanced transfer of analytes to the column, good response, and highly symmetric peaks. The inertness of these liners is due to a state-of-the-art deactivation process that completely passivates the liner—and the wool—so that they are inert to a wide variety of reactive analytes.

Some deactivations, such as base deactivation, are effective only for particular target compound chemistries. In contrast, the balanced deactivation of Sky® liners prevents interactions with many chemical classes. With Sky® inlet liners, you will see improved sensitivity, accuracy, robustness, and reproducibility from liner to liner, which allows you to quantify challenging compounds at trace levels with confidence.

## Prevent the Loss of Sensitive Analytes—Even When Using Wool

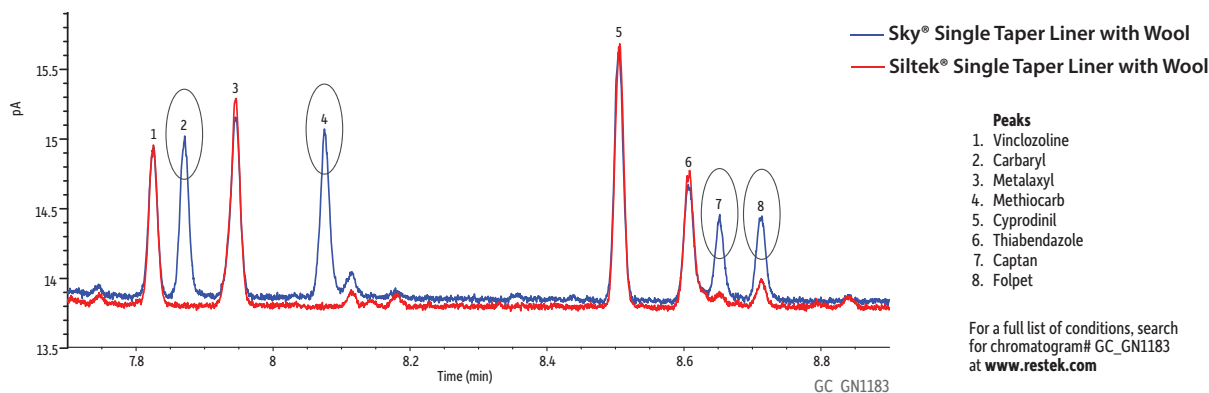
Sensitive analytes like carbaryl and methiocarb readily react with active sites in your inlet, especially when using a liner with wool. That reactivity makes these compounds difficult to analyze, but excellent for demonstrating inertness (i.e., the reduction of unwanted reactions between a liner and active compounds). Sky® liners with quartz wool offer superb results for these and other inertness probes even at low concentrations, whereas other leading deactivations using borosilicate wool show reduced response—or no response at all. When you are concerned about losing sensitive analytes, feel confident in choosing Sky® liners with wool.

**Table I:** Relative response factors for sensitive analytes using trace-level (100 pg on column) splitless injection.

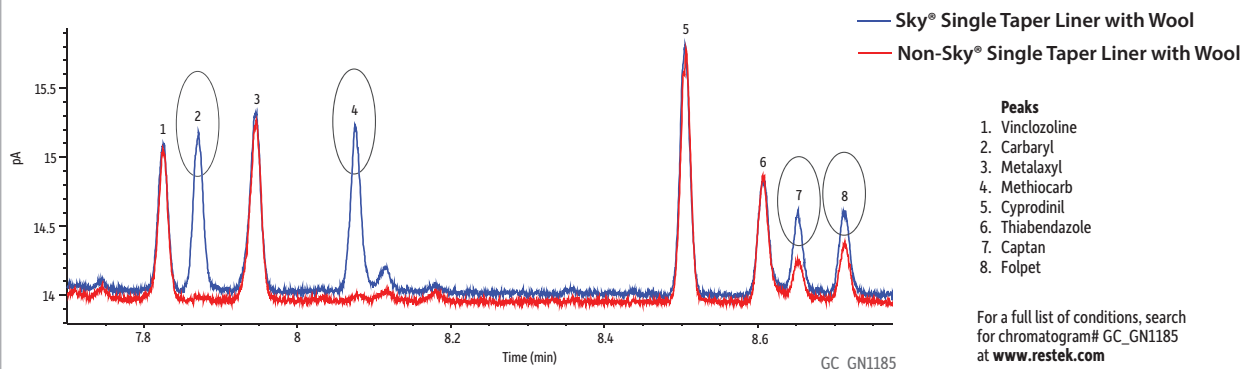
	Carbaryl	Methiocarb	Captan	Folpet
Sky® Liner w/Wool	0.718	0.720	0.380	0.403
Siltek® Liner w/Wool	ND	ND	0.087	0.150
Non-Sky® Liner w/Wool	ND	ND	0.237	0.290

See Figures 1 and 2 for more details.

**Figure 1:** Especially for active compounds like pesticides, Sky® liners with quartz wool offer superior trace-level response over Siltek®-deactivated liners with borosilicate wool.



**Figure 2:** Sky® liners with quartz wool also offer markedly better trace-level response for sensitive analytes compared to non-Sky® liners with borosilicate wool, as shown here with pesticides.



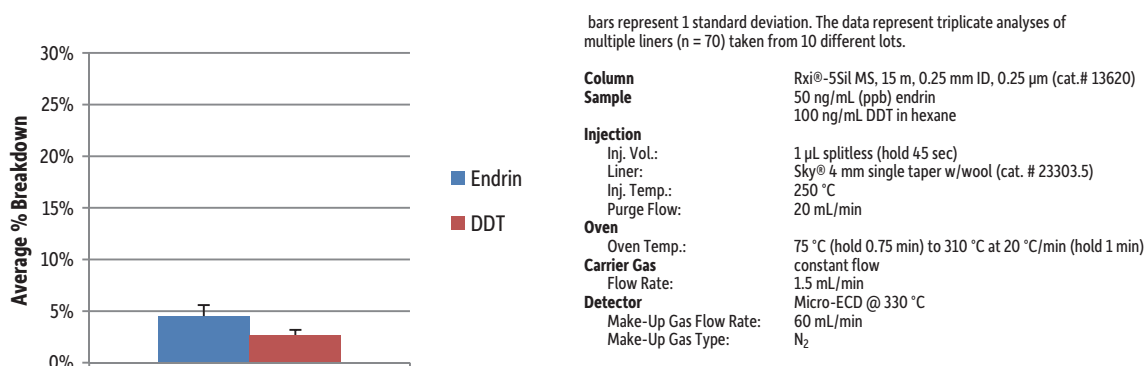
# Simple Solutions:

Exceptionally Inert Sky® Inlet Liners Improve Accuracy and Precision for a Wide Range of Analytes

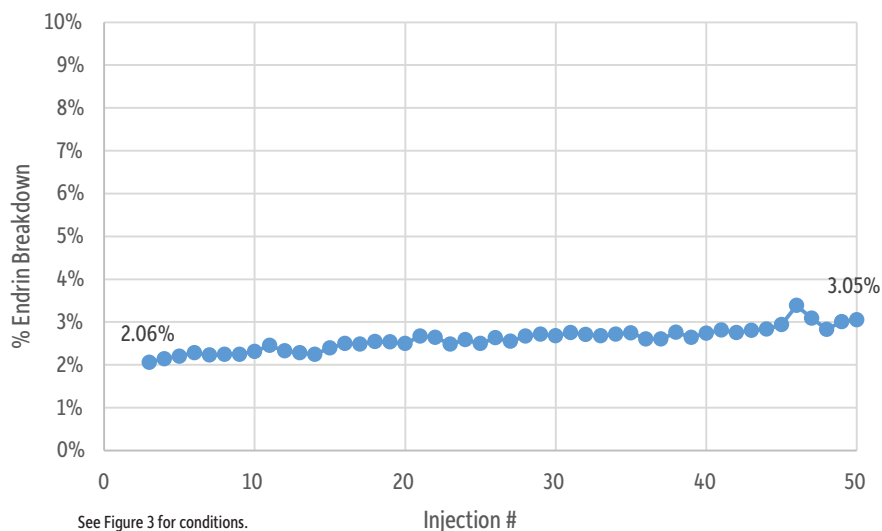
## Ensure Consistent Data from Liner to Liner and Injection to Injection

It's not good enough to have one quality liner. You have to be confident that *every liner you use* will give you the same high level of performance *every time you use it*. We test Sky® liners extensively to ensure they are exceptionally inert and will provide optimal results with every lot, liner, and injection.

**Figure 3:** Sky® inlet liners offer outstanding lot-to-lot inertness and reproducibility—exhibited here through consistently low endrin and DDT breakdown test results.



**Figure 4:** Even after 50 injections, highly robust Sky® liners show minimal increase in compound degradation.


















## Choose Blue: the Best Choice for Dependable Results




Sky® liners provide exceptional inertness across a wide range of active analytes. The consistent, comprehensive deactivation process results in the accuracy and precision you need for reliable trace-level analyses. Simplify your liner selection—and improve your results—with Sky® liners from Restek. [www.restek.com/sky](http://www.restek.com/sky)

# Product Listing

## Sky® Inlet Liners for Agilent GCs

Split Liners for Agilent GCs	ID OD x Length	Similar to Agilent Part #	ea. cat.#	5-pk. cat.#	25-pk. cat.#
 1 mm Split	1.0 mm 6.3 mm x 78.5 mm	18740-80200 (ea.)	23333.1	23333.5	23333.25
 4 mm Straight w/Wool	4.0 mm 6.3 mm x 78.5 mm	19251-60540, 5190-2294 (ea.) 5183-4691, 5190-3164 (5-pk.) 5183-4692 (25-pk.)	23300.1	23300.5	23300.25
 2 mm Precision Liner w/Wool	2.0 mm 6.3 mm x 78.5 mm	—	23468.1	23468.5	—
 4 mm Precision Liner w/Wool	4.0 mm 6.3 mm x 78.5 mm	210-4004-5 (5-pk.)	23305.1	23305.5	23305.25 ✓
 4 mm Cyclo	4.0 mm 6.3 mm x 78.5 mm		23312.1	23312.5	23312.25 ✓

Splitless Liners for Agilent GCs	ID OD x Length	Similar to Agilent Part #	ea. cat.#	5-pk. cat.#	25-pk. cat.#
 2 mm Splitless	2.0 mm 6.5 mm x 78.5 mm	5181-8818 (ea.) 5183-4703 (5-pk.) 5183-4704 (25-pk.)	23313.1	23313.5	23313.25
 2 mm Splitless w/Wool	2.0 mm 6.5 mm x 78.5 mm		23314.1	23314.5	23314.25
 2 mm Single Taper	2.0 mm 6.5 mm x 78.5 mm		23315.1	23315.5	23315.25
 2 mm Single Taper w/Wool	2.0 mm 6.5 mm x 78.5 mm		23316.1	23316.5	23316.25
 4 mm Straight	4.0 mm 6.3 mm x 78.5 mm	210-3003 (ea.) 210-3003-05 (5-pk.)	23301.1	23301.5	23301.25
 4 mm Straight w/Wool	4.0 mm 6.3 mm x 78.5 mm	19251-60540, 5190-2294 (ea.) 5183-4691, 5190-3164 (5-pk.) 5183-4692 (25-pk.)	23300.1	23300.5	23300.25
 4 mm Single Taper	4.0 mm 6.5 mm x 78.5 mm	5181-3316 (ea.) 5183-4695 (5-pk.) 5183-4696 (25-pk.)	23302.1	23302.5	23302.25 ✓
 4 mm Single Taper w/Wool	4.0 mm 6.5 mm x 78.5 mm	5062-3587, 5190-2293 (ea.) 5183-4693, 5190-3163 (5-pk.) 5183-4694 (25-pk.)	23303.1	23303.5	23303.25 ✓
 4 mm Double Taper	4.0 mm 6.5 mm x 78.5 mm	5181-3315 (ea.) 5183-4705 (5-pk.) 5183-4706 (25-pk.)	23308.1	23308.5	23308.25
 4 mm Cyclo Double Taper	4.0 mm 6.5 mm x 78.5 mm		23310.1	23310.5	23310.25











Split/Splitless Liners for Agilent GCs	ID OD x Length	Similar to Agilent Part #	ea. cat.#	5-pk. cat.#	25-pk. cat.#
 4 mm Straight w/Wool	4.0 mm 6.3 mm x 78.5 mm	19251-60540, 5190-2294 (ea.) 5183-4691, 5190-3164 (5-pk.) 5183-4692 (25-pk.)	23300.1	23300.5	23300.25
 Low Pressure Drop Precision Liner w/Wool	4.0 mm 6.3 mm x 78.5 mm		23309.1	23309.5	
 Low Pressure Drop Liner w/Wool	4.0 mm 6.3 mm x 78.5 mm	5183-4647, 5183-4711, 5190-2295 (ea.) 5183-4701, 5183-4712, 5190-3165 (5-pk.) 5183-4713 (25-pk.)	23467.1	23467.5	23467.25

Patent pending

✓ = Restek Recommends

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## Sky® Inlet Liners for Agilent GCs





CIS4 and PTV Liners for Agilent GCs	ID OD x L	Similar to Agilent Part #	ea.	5-pk.	10-pk.
			cat.#	cat.#	cat.#
 On Column PTV	1.7 mm 3.0 mm x 71 mm		23430.1	23430.5	
 Single Baffle PTV	2.0 mm 3.0 mm x 71 mm	5183-2036 (10-pk.)			23431.10
 Single Baffle PTV w/Wool	2.0 mm 3.0 mm x 71 mm	5183-2038 (10-pk.)			23432.10
 Baffled PTV	1.5 mm 3.0 mm x 71 mm	5183-2037 (10-pk.)			23433.10
<b>Analytical Controls TPI Inlet Liners for Agilent GCs</b>					
 TPI for 0.53 mm ID columns	2.4 mm 4.0 mm x 71 mm				23429.10
 TPI for 0.25/0.32 mm ID columns	2.4 mm 4.0 mm x 71 mm				23428.10
<b>SPME Liners for Agilent GCs</b>					
 SPME Liner	0.75 mm 6.35 mm x 78.5 mm		23434.1	23434.5	
<b>Direct Injection Liners for Agilent GCs (for 0.25/0.32/0.53mm ID Columns)</b>					
 Drilled Uniliner (hole near bottom)	4.0 mm 6.3 mm x 78.5 mm	G1544-80730 (ea.)	23306.1	23306.5	23306.25
 Drilled Uniliner (hole near bottom) w/Wool	4.0 mm 6.3 mm x 78.5 mm		23307.1	23307.5	
 Drilled Uniliner (hole near top)	4.0 mm 6.3 mm x 78.5 mm		23311.1	23311.5	23311.25


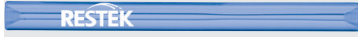
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Patent pending

## Sky® Inlet Liners for Bruker/Varian GCs

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Liners for Bruker/Varian 1177 S/SL Injection Ports	ID OD x Length	Similar to Bruker/Varian Part #	ea. cat.#	5-pk. cat.#
 RESTEK 4 mm Split Liner w/Glass Frit	4.0 mm 6.3 mm x 78.5 mm		23330.1	23330.5
 RESTEK 4 mm Precision Liner w/Wool	4.0 mm 6.3 mm x 78.5 mm		23328.1	23328.5
 RESTEK 4 mm Single Taper	4.0 mm 6.5 mm x 78.5 mm	392611927	23331.1	23331.5
 RESTEK 4 mm Single Taper w/Wool	4.0 mm 6.5 mm x 78.5 mm	392611936	23332.1	23332.5

SPI Liners for Bruker/Varian S/SL Injection Ports	ID OD x L	Similar to Bruker/Varian Part #	ea. cat.#	5-pk. cat.#	25-pk. cat.#
 RESTEK SPI Liner	0.53 mm 4.6 mm x 54 mm	190010906	23460.1	23460.5	
 RESTEK SPI Liner	0.8 mm 4.6 mm x 54 mm	190010907	23461.1	23461.5	23461.25

Liners for Bruker/Varian 1078/1079 Injection Ports	ID OD x Length	Similar to Bruker/Varian Part #	ea. cat.#	5-pk. cat.#	25-pk. cat.#
 RESTEK 3.4 mm Split-No Frit	3.4 mm 5.0 mm x 54 mm	392611945	23329.1	23329.5	23329.25
 RESTEK Split w/Glass Frit	3.4 mm 5.0 mm X 54 mm	392611946	23462.1	23462.5	
 RESTEK Splitless	2.0 mm 5.0 mm X 54 mm	392611947	23463.1	23463.5	
 RESTEK SPME Liner	0.75 mm 5.0 mm X 54 mm	392611948	23465.1	23465.5	
 RESTEK Split Precision Liner w/Wool	3.4 mm 5.0 mm X 54 mm		23466.1	23466.5	

Patent pending



✓ = Restek Recommends



Sky® inlet liners are easy to recognize as the best choice for optimal chromatography. All Sky® liners come in specially marked boxes and are packaged in ultra-clean blister packs.

## Sky® Inlet Liners for PerkinElmer GCs




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Split Liners for PerkinElmer GCs	ID OD x L	Similar to PE Part #	ea. cat.#	5-pk. cat.#
 Splitter w/Wool	4.0 mm 6.2 mm x 92.1 mm	N650209	23449.1	23449.5
 4 mm Split Precision Liner w/Wool	4.0 mm 6.2 mm x 92.1 mm	N6121020	23450.1	23450.5



Splitless Liners for PerkinElmer GCs	ID OD x L	Similar to PE Part #	ea. cat.#	5-pk. cat.#
 2 mm Splitless w/Wool	2.0 mm 6.2 mm x 92.1 mm	N6121021	23451.1	23451.5

PSS Liners for PerkinElmer GCs	ID OD x Length	Similar to PE Part #	ea. cat.#	5-pk. cat.#	25-pk. cat.#
 Auto SYS XL PSS Split/Splitless w/Wool	2.0 mm 4.0 mm x 86.2 mm	N6121004	23317.1	23317.5	23317.25

DI Liners for PerkinElmer GCs	ID OD x L	Similar to PE Part #	ea. cat.#	5-pk. cat.#
 Open-Top Uniliner w/Wool	4.0 mm 6.2 mm x 92.1 mm	N6502016	23452.1	23452.5
 Drilled Uniliner (hole near top)	4.0 mm 6.2 mm x 92.1 mm	N6121022	23453.1	23453.5
 Drilled Uniliner (hole near bottom)	4.0 mm 6.2 mm x 92.1 mm	N6502013	23454.1	23454.5

Patent pending




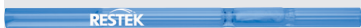





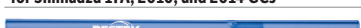

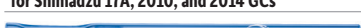


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## Sky® Inlet Liners for Shimadzu GCs

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<b>Split Liners for Shimadzu 17A, 2010, and 2014 GCs</b>	<b>ID OD x Length</b>	<b>Similar to Shimadzu Part #</b>	<b>ea. cat.#</b>	<b>5-pk. cat.#</b>	<b>25-pk. cat.#</b>
 3.5 mm Split	3.5 mm 5.0 mm x 95 mm	221-41444-01	23318.1	23318.5	23318.25
 3.5 mm Split w/Wool	3.5 mm 5.0 mm x 95 mm		23319.1	23319.5	23319.25
 3.5 mm Precision Liner w/Wool	3.5 mm 5.0 mm x 95 mm		23320.1	23320.5	✓
 Single Taper Precision Liner w/Wool	3.5 mm 5.0 mm x 95 mm		23455.1	23455.5	
 Cyclo	3.5 mm 5.0 mm x 95 mm		23456.1	23456.5	✓
<b>Splitless Liners for Shimadzu 17A, 2010, and 2014 GCs</b>	<b>ID OD x Length</b>	<b>Similar to Shimadzu Part #</b>	<b>ea. cat.#</b>	<b>5-pk. cat.#</b>	<b>25-pk. cat.#</b>
 3.5 mm Single Taper	3.5 mm 5.0 mm x 95 mm	221-48335-01	23321.1	23321.5	23321.25 ✓
 3.5 mm Single Taper w/Wool	3.5 mm 5.0 mm x 95 mm		23336.1	23336.5	✓
 3.5 mm Single Taper w/Wool	3.5 mm 5.0 mm x 95 mm		23322.1	23322.5	
 Double Taper	3.5 mm 5.0 mm x 95 mm		23457.1	23457.5	
<b>Split/Splitless Liners for Shimadzu 17A, 2010, and 2014 GCs</b>	<b>ID OD x L</b>	<b>Similar to Shimadzu Part #</b>	<b>ea. cat.#</b>	<b>5-pk. cat.#</b>	<b>25-pk. cat.#</b>
 Split/Splitless w/Wool	3.5 mm 5.0 mm x 95 mm	221-41444-00	23458.1	23458.5	23458.25
<b>Liners for Shimadzu 17A PTV GCs</b>	<b>ID OD x L</b>	<b>Similar to Shimadzu Part #</b>	<b>ea. cat.#</b>	<b>5-pk. cat.#</b>	<b>25-pk. cat.#</b>
 PTV w/Wool	1.6 mm 4.0 mm x 95 mm	225-09212-01	23435.1	23435.5	23435.25
<b>DI Liners for Shimadzu 17A, 2010, and 2014 GCs</b>	<b>ID OD x L</b>		<b>ea. cat.#</b>	<b>5-pk. cat.#</b>	
 Uniliner w/Wool	3.5 mm 5.0 mm x 95 mm		23459.1	23459.5	
<b>Liners for Shimadzu 2010 PTV GCs</b>	<b>ID OD x L</b>		<b>ea. cat.#</b>	<b>10-pk. cat.#</b>	
 PTV 2010	1.5 mm 3.5 mm x 95 mm		23471.1	23471.10	
 PTV 2010 w/Wool	1.5 mm 3.5 mm x 95 mm		23472.1	23472.10	

Patent pending

✓ = Restek Recommends

## Sky® Inlet Liners for Thermo Scientific GCs

Split Liners for Thermo TRACE GC Ultra and Focus SSL	ID	Similar to TS Part #	ea.	5-pk.	25-pk.
	OD x Length		cat.#	cat.#	cat.#
 Split Straight	3.0 mm 8.0 mm x 105 mm	453 20031	23439.1	23439.5	23439.25
 Split Straight w/Wool	3.0 mm 8.0 mm x 105 mm		23440.1	23440.5	23440.25
 5 mm Straight	5.0 mm 8.0 mm x 105 mm	453 20030	23323.1	23323.5	23323.25
 5 mm Straight w/Wool	5.0 mm 8.0 mm x 105 mm		23324.1	23324.5	23324.25
 5 mm Precision Liner w/Wool	5.0 mm 8.0 mm x 105 mm		23327.1	23327.5	✓
<b>Splitless Liners for Thermo TRACE GC Ultra and Focus SSL</b>					
Splitless	ID	Similar to TS Part #	ea.	5-pk.	25-pk.
OD x Length	cat.#		cat.#	cat.#	
 Splitless	3.0 mm 8.0 mm x 105 mm	453 20032	23441.1	23441.5	23441.25 ✓
 Splitless w/Wool	3.0 mm 8.0 mm x 105 mm		23442.1	23442.5	23442.25 ✓
 Splitless Precision Liner w/Wool	5.0 mm 8.0 mm x 105 mm		23443.1	23443.5	
 5 mm Splitless	5.0 mm 8.0 mm x 105 mm	453 20033	23325.1	23325.5	23325.25
 5 mm Splitless w/Wool	5.0 mm 8.0 mm x 105 mm		23326.1	23326.5	23326.25
<b>Split Liners for Thermo TRACE 1300 Series GCs</b>					
Split	ID		ea.	5-pk.	
OD x L	cat.#	cat.#	cat.#		
 Split	1.0 mm 6.3 mm x 78.5 mm		23448.1	23448.5	

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Patent pending

✓ = Restek Recommends



### Choose the Best Liner



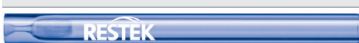


To better understand liner features and quickly determine which Sky® inlet liner is right for your application, download our Liner Anatomy poster and in-depth bench guide—or request printed copies—at [www.restek.com/posters](http://www.restek.com/posters)

You can also read our blogs and technical articles on liner selection at [www.restek.com/sky](http://www.restek.com/sky)



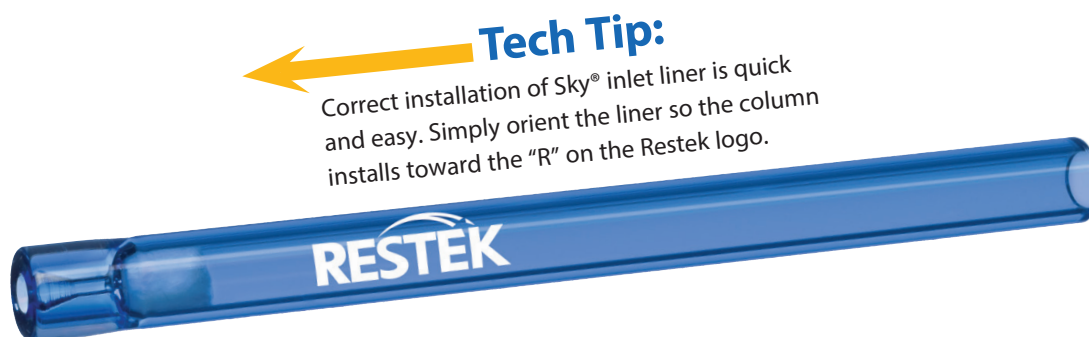
## Sky® Inlet Liners for Thermo Scientific GCs

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Splitless Liners for Thermo TRACE 1300 Series GCs		ID OD x L	ea. cat.#	5-pk. cat.#	
	Splitless Straight	4.0 mm 6.3 mm x 78.5 mm	23445.1	23445.5	
	4 mm Splitless Single Taper	4.0 mm 6.5 mm x 78.5 mm	23446.1	23446.5	
	4 mm Splitless Single Taper w/Wool	4.0 mm 6.5 mm x 78.5 mm	23447.1	23447.5	
Split/Splitless Liners for Thermo TRACE 1300 Series GCs		ID OD x L	ea. cat.#	5-pk. cat.#	
	4 mm Split/Splitless Straight w/Wool	4.0 mm 6.3 mm x 78.5 mm	23444.1	23444.5	
Split Liners for Thermo Scientific TRACE PTV		ID OD x L	Similar to TS Part #	ea. cat.#	5-pk. cat.#
	Split PTV	1.0 mm 2.75 mm x 120 mm	453 22054	23436.1	23436.5
	Split PTV	2.0 mm 2.75 mm x 120 mm	453 22045	23437.1	23437.5
	Baffled PTV	2.0 mm 2.75 mm x 120 mm		23438.1	23438.5

Patent pending

 = Restek Recommends



**Tech Tip:**  
Correct installation of Sky® inlet liner is quick and easy. Simply orient the liner so the column installs toward the "R" on the Restek logo.

\* 100% SATISFACTION GUARANTEE: If your Sky® inlet liner does not perform to your expectations for any reason, simply contact Restek® Technical Service or your local Restek® representative and provide a sample chromatogram showing the problem. If our GC experts are not able to quickly and completely resolve the issue to your satisfaction, you will be given an account credit or replacement product (same cat.#) along with instructions for returning any unopened product. (Do not return product prior to receiving authorization.) For additional details about Restek's return policy, visit [www.restek.com/warranty](http://www.restek.com/warranty)

# Increased Availability and 100% Guaranteed Performance\*



Restek is now offering a 100% satisfaction guarantee for all Sky® inlet liners. These exceptionally inert liners are now produced with new proprietary Restek® processes and apply some of the industry's tightest testing specifications. The Sky® liners analysts want most are in stock now and guaranteed to exceed your expectations.



#### Available for:

*Agilent • Bruker/Varian • PerkinElmer  
Shimadzu • Thermo Scientific*

\* For details on our 100% satisfaction guarantee, visit [www.restek.com/sky](http://www.restek.com/sky)



[www.restek.com/sky](http://www.restek.com/sky)

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Pure Chromatography

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