NEW!

True Blue Performance

Exceptionally inert, Sky™ inlet liners with state-of-the-art deactivation improve trace level analysis.

- Increase accuracy and precision
- Lower detection limits
- Use wool with confidence











True Blue Performance

- Increase accuracy and reproducibility with state-of-the-art deactivation.
- Achieve lower detection limits for a wide range of active compounds.
- Use wool without risking the loss of sensitive analytes.

When faced with complex choices, simple solutions stand out. Sky^{TM} inlet liners from Restek use a comprehensive, state-of-the-art deactivation and are

New Sky[™] liners give you the inertness you need for more accurate trace level results. the only blue liners on the market—making them an easy-to-recognize solution to common inlet problems.



The innovative deactivation used for Sky™ 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 daunting task. Sky™ inlet liners make the choice simple; the comprehensive deactivation, distinctive color, and availability in popular configurations mean Sky™ liners are the best choice for optimizing chromatographic performance. Regardless of your application, Sky™ liners provide reliable inertness and assured performance, day-after-day and analysis-after-analysis.

The Story Behind Sky™

For over 25 years, Restek's vision has been to be the company chromatographers trust. This philosophy is the cornerstone of our business, and it's the reason our chemists and engineers are dedicated to developing innovative, best-in-class products like Sky™ liners. As chromatographers, we understand your needs and strive to develop and deliver products that make your life easier.

With Sky™ liners our goal was to create a state-of-the-art deactivation that provides superior performance, but why did we make them blue? Restek has always been associated with the color blue; to us, it signifies strength, innovation, and excellence. We made SKY™ liners blue because it represents the technological advancements and unmatched quality that define Restek products. Choose blue—the best choice for dependable results.

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Simple Solutions:

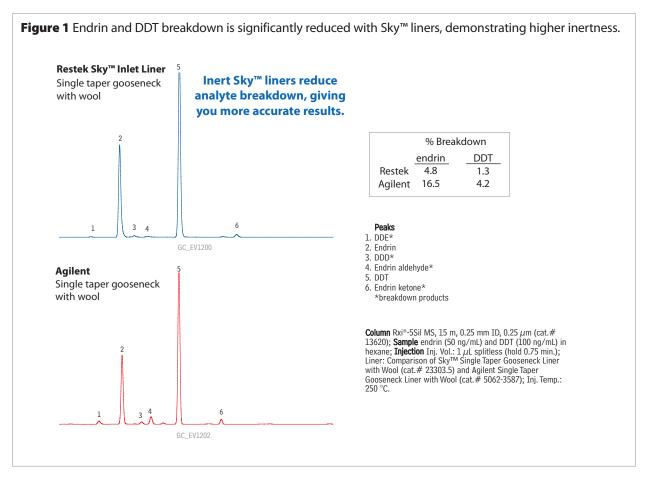
Inert Sky™ Inlet Liners Improve Accuracy and Precision for a Wide Range of Analytes

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. New Sky™ inlet liners from Restek offer exceptional inertness, assuring 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 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. As shown on the following pages, complex pesticide probes, as well as both acidic and basic compounds have strong responses and excellent peak shapes, demonstrating the inertness of Sky[™] liners. With new Sky[™] inlet liners you will see improved sensitivity, accuracy, and reproducibility liner-to-liner, which allows you to quantify challenging compounds at trace levels with confidence.

Reduced Breakdown Improves Trace Analyses

Endrin & DDT are important analytes for the environmental and food safety industries, and also serve as excellent general probes for liner inertness. Both compounds are sensitive to different modes of activity due to their chemical structures and because they are analyzed at very low concentrations (typically parts-per-billion concentrations for μ ECD analyses). As shown in Figure 1, SkyTM liners are significantly more inert than comparable liners from Agilent, showing 3-4 times less endrin and DDT breakdown.



did you **know**?

Sky[™] inlet liners from Restek are extensively tested to assure consistent product quality. The color and label have been shown not to interfere with analyses or contribute to background. Choose blue—the best liner for sensitive applications.



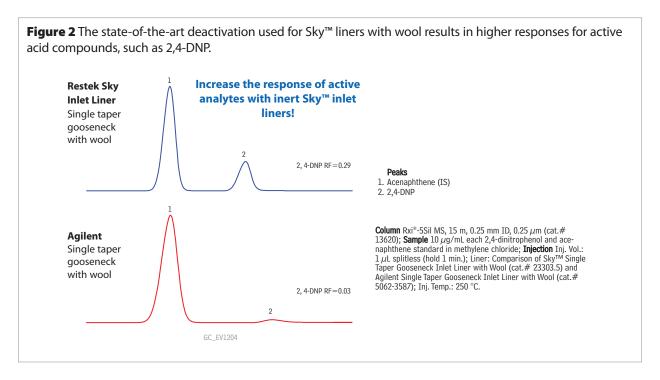
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Simple Solutions:

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

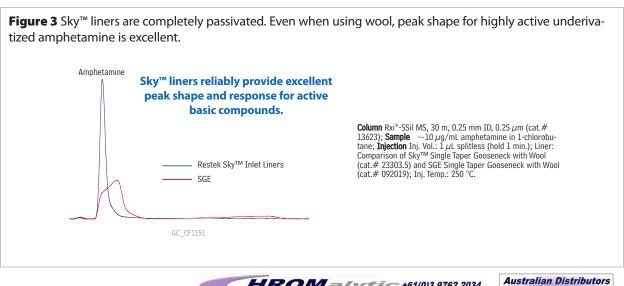
Greater Inertness Results in Higher Analyte Response

Another common probe used to illustrate inertness is 2,4-dinitrophenol (2,4-DNP), which functions as an indicator of acid compound interactions. It is used to monitor system suitability in semivolatiles methods, which benefit from the use of wool to assist in sample vaporization. As shown in Figure 2, the response of 2,4-DNP with the Sky[™] inlet liner, even at low concentrations, is superior to a competitor's liner. The Agilent liner with wool has active sites that adsorb 2,4-DNP and reduce its response. In contrast an excellent response is achieved using the Sky[™] liner, even in the presence of wool.



Comprehensive Deactivation Assures Excellent Peak Shape

In addition to providing excellent results for reactive pesticides and acidic compounds, SkyTM inlet liners are also highly inert to active basic compounds, such as underivatized amphetamines. The exceptional inertness of SkyTM liners produces much better peak shape than is typically seen on other liners, resulting in simpler quantification and more accurate results (Figure 3).



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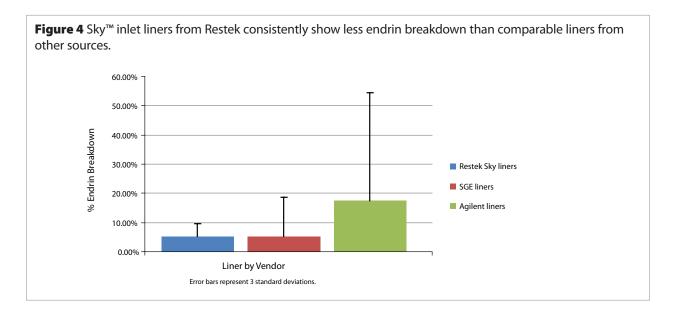
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Liner-to-Liner Reproducibility: A Measure of Consistent Quality

It's not good enough to have one quality liner. You have to be confident that every liner will give the same level of performance. We test Sky^{TM} liners extensively to ensure that each one is exceptionally inert and will provide optimal results. Using endrin breakdown as a measure of reproducibility, the data in Figure 4, based on multiple lots, illustrate that Sky^{TM} liners are more consistently inert than competitor products.

New SkyTM 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 liner selection with SkyTM liners from Restek—**choose blue, the best choice for dependable results.**





New Sky[™] inlet liners are easily recognizable for your reordering convenience. All Sky[™] liners come in specially marked boxes and are packaged in ultra-clean blister packs.

Sky™ Inlet Liners for Agilent GCs

Splitless Liners for Agilent GCs	ID OD x Length	Similar to Agilent part #	ea.	cat.#/price 5-pk.	25-pk.
RESTEK Imm Splitless	2.0mm 6.5mm x 78.5mm	5181-8818 (ea.) 5183-4703 (5-pk.)	23313.1	23313.5	23313.
anin Spiness	0.0	5183-4704 (25-pk.)	022141	022145	0227.4.6
RESTÈK 2mm Splitless w/Wool	2.0mm 6.5mm x 78.5mm		23314.1	23314.5	23314.
	2.0mm		23315.1	23315.5	23315.
2mm Single Taper Gooseneck	6.5mm x 78.5mm		25515.1	25515.5	25515.
RESTEK	2.0mm		23316.1	23316.5	23316.
mm Single Taper Gooseneck w/Wool	6.5mm x 78.5mm				
RESTEK	4.0mm	210-3003 (ea.)	23301.1	23301.5	23301.
mm Straight	6.3mm x 78.5mm	210-3003-05 (5-pk.)			
RESTEK	4.0mm	19251-60540 (ea.) 5183-4691 (5-pk.)	23300.1	23300.5	23300.
mm Straight w/Wool	6.3mm x 78.5mm	5183-4692 (25-pk.)			
RESTEK	4.0mm	5181-3316 (ea.)	23302.1	23302.5	23302.
mm Single Taper Gooseneck	6.5mm x 78.5mm	5183-4695 (5-pk.) 5183-4696 (25-pk.)	23302.1	23302.3	23302.
	A Omm	5062-3587 (ea.)			
RESTEK	4.0mm 6.5mm x 78.5mm	5183-4693 (5-pk.)	23303.1	23303.5	23303.
mm Single Taper Gooseneck w/Wool	3.3 7 0.311111	5183-4694 (25-pk.)			
RESTEK	4.0mm	5181-3315 (ea.) 5183-4705 (5-pk.)	23308.1	23308.5	23308
mm Double Taper Gooseneck	6.5mm x 78.5mm	5183-4706 (25-pk.)	23308.1	23308.3	23308
RESTEK mm Cyclo Double Taper Gooseneck	4.0mm 6.5mm x 78.5mm		23310.1	23310.5	23310
Sulit Lineau fou Anilout CC	ID	2 1		cat.#	
Split Liners for Agilent GCs	OD x Length	Similar to Agilent part #	ea.	5-pk.	25-p
RESTEK mm Straight w/Wool	4.0mm 6.3mm x 78.5mm	19251-60540 (ea.) 5183-4691 (5-pk.) 5183-4692 (25-pk.)	23304.1	23304.5	23304
RESTEK	4.0mm	210-4004-5 (5-pk.)	23305.1	23305.5	23305
mm Precision Liner w/Wool	6.3mm x 78.5mm				
NAVANAVAN RESTEK	4.0mm 6.3mm x 78.5mm		23312.1	23312.5	23312.
mm Cyclosplitter	0.3IIIII X / 8.3IIIIII				
Split/Splitless Liners for Agilent GCs	ID OD x Length	Similar to Agilent part #	ea.	cat.# 5-pk.	
RESTEK	4.0mm		23309.1	23309.5	
ow Pressure Drop Liner w/Wool	6.3mm x 78.5mm				
DI Liners for Agilent GCs	ID			cat.#	
(for 0.25/0.32/0.53mm ID Columns)	OD x Length	Similar to Agilent part #	ea.	5-pk.	25-pl
RESTEK	4.0mm 6.3mm x 78.5mm	G1544-80730 (ea.)	23306.1	23306.5	
Prilled Uniliner (hole near bottom)					
Prilled Uniliner (hole near bottom) w/Wool	4.0mm 6.3mm x 78.5mm		23307.1	23307.5	
RESTEK (°)	4.0mm		23311.1	23311.5	23311
Orilled Uniliner (hole near top)	6.3mm x 78.5mm				
Sky™ Inlet Liners for PerkinE	lmer GCs				
PSS Liners for PerkinElmer GCs	ID OD x Length	Similar to PE part #	ea.	cat.# 5-pk.	
RESTEK	2.0mm	<u> </u>	23317.1	23317.5	
auto SYS XL PSS Split/Splitless w/Wool	4.0mm x 86.2mm	N6121004	_		
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Sky™ Inlet Liners for Shimadzu GCs

Split Liners for Shimadzu	ID				
17A, 2010, and 2014 GCs	OD x Length	Similar to Shimadzu part #	ea.	5-pk.	25-pl
RESTEK 3.5mm Split	3.5mm 5.0mm x 95mm	221-41444-01	23318.1	23318.5	23318.2
RESTEK	3.5mm		23319.1	23319.5	23319.2
3.5mm Split w/Wool	5.0mm x 95mm				
RESTEK	3.5mm		23320.1	23320.5	
3.5mm Precision Liner w/Wool	5.0mm x 95mm				
Splitless Liners for Shimadzu	ID			cat.#	
17A, 2010, and 2014 GCs	OD x Length	Similar to Shimadzu part #	ea.	5-pk.	
RESTEK	3.5mm	221-48335-01	23321.1	23321.5	
3.5mm Single Taper Gooseneck	5.0mm x 95mm				
RESTEK	3.5mm		23322.1	23322.5	
3.5mm Single Taper Gooseneck w/Wool	5.0mm x 95mm				
	5.0mm	<u>.</u>	23323.1	23323.5	23323.2
Sky [™] Inlet Liners for Thermo Split Liners for Thermo TRACE,	ID			cat.#	
8000, 8000 TOP, & Focus SSL	OD x Length	Similar to TS part #	ea.	5-pk.	25-pl
FESTEK Find Straight	8.0mm x 105mm	453 20030			
RESTEK	5.0mm 8.0mm x 105mm		23324.1	23324.5	23324.
imm Straight w/Wool	8.UMM X 105MM				
RESTEK =	5.0mm		23327.1	23327.5	
omm Precision Liner w/Wool	8.0mm x 105mm				
Splitless Liners for Thermo TRACE,	ID			cat.#	
8000, 8000 TOP, & Focus SSL	OD x Length	Similar to TS part #	ea.	5-pk.	25-pl
RESTÈK	5.0mm	453 20033	23325.1	23325.5	23325.2
5mm Splitless	8.0mm x 105mm				
RESTEK	5.0mm		23326.1	23326.5	23326.
5mm Splitless w/Wool	8.0mm x 105mm				
Sky™ Inlet Liners for Varian (GCs.				
Liners for Varian 1177 S/SL	D D			cat.#	
Injection Ports	OD x Length	Similar to Varian part #	ea.	5-pk.	
	4.0mm		23330.1	23330.5	
RESTEK	6.3mm x 78.5mm				

Injection Ports	OD x Length	Similar to Varian part #	ea.	5-pk.	
Amm Split Liner w/Glass Frit	4.0mm 6.3mm x 78.5mm		23330.1	23330.5	
RESTEK 4mm Precision Liner w/Wool	4.0mm 6.3mm x 78.5mm		23328.1	23328.5	
4mm Single Taper Gooseneck	4.0mm 6.5mm x 78.5mm	392611927	23331.1	23331.5	
Amm Single Taper Gooseneck w/Wool	4.0mm 6.5mm x 78.5mm	392611936	23332.1	23332.5	
Liners for Varian 1078/1079	ID			cat.#	
Injection Ports	OD x Length	Similar to Varian part #	ea.	5-pk.	25-pk.
RESTEK 3.4mm Split–No Frit	3.4mm 5.0mm x 54mm	392611945	23329.1	23329.5	23329.25



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