

The next level of True Blue Performance

Topaz GC inlet liners feature revolutionary technology and inertness to deliver the next level of:

- Deactivation
- Reproducibility
- Productivity

www.restek.com/topaz



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Topaz GC Inlet Liners

Topaz GC inlet liners feature revolutionary technology and inertness to deliver the next level of True Blue Performance:

- **Deactivation**—unbelievably low breakdown for accurate and precise low-level GC analyses.
- **Reproducibility**—unbeatable manufacturing controls and QC testing for superior reliability across compound classes.
- **Productivity**—unparalleled cleanliness for maximized GC uptime and lab throughput.
- 100% Satisfaction—if a liner doesn't perform to your expectations, we will replace it or credit your account.

Patented

Topaz inlet liners feature a 100% satisfaction guarantee.

All Topaz inlet liners are produced with proprietary Restek processes and apply some of the tightest testing specifications in the industry. The exceptionally inert Topaz liners analysts want most are in stock now and are guaranteed to deliver outstanding performance that exceeds your expectations.



7.56

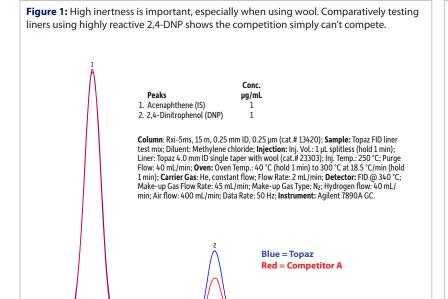
7.62 7.64

Time (min)

GC_EV1451

The next level of True Blue Deactivation

As the demand for lower detection limits continues to grow, even the smallest amount of activity in your liner can cause analyte breakdown and impact your results—tailing peaks, loss of response, and other issues we've all experienced. In developing Topaz GC inlet liners, our chemists created a new deactivation that yields unbelievably low breakdown.



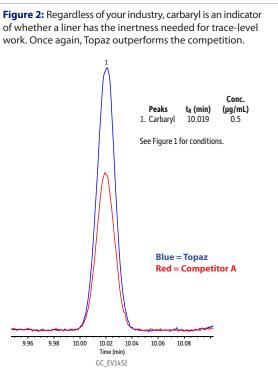
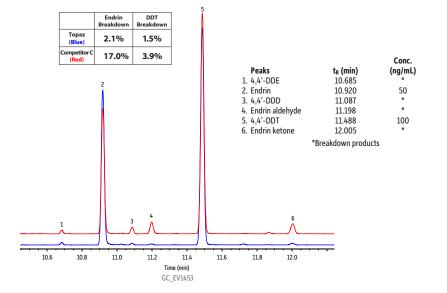


Figure 3: Government regulations can have very strict requirements for maximum analyte breakdown. For example, EPA method 8081 requires no more than 15% endrin and DDT breakdown. No problem with Topaz liners.



Column: Rxi-5ms, 15 m, 0.25 mm ID, 0.25 µm (cat.# 13420); Sample: Endrin (50 ng/mL) and DDT (100 ng/mL); Diluent: n-Hexane; Injection: Inj. Vol.: 1 µL splitless (hold 1.2 min); Liner: Topaz 4.0 mm single taper with wool (cat.# 23303); Inj. Temp.: 250 °C; Purge Flow: 20 mL/min; Oven: Oven Temp.: 50 °C (hold 1.2 min) to 240 °C dx 20 °C/min to 265 °C at 6 °C/min; Carrier Gas: He, constant flow; Rate: 1.5 mL/min; Detector: ECD @ 300 °C; Make-up Gas Flow Rate: 60 mL/min; Make-up Gas Type: Nz; Data Rate: 20 Hz; Instrument: Adjeint 7890A GC.

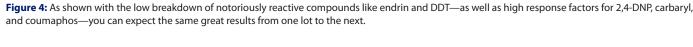
Liner inertness can be described as the reduction in unwanted reactions between a liner and active compounds (and, therefore, a reduction in analyte breakdown and adsorption). Topaz deactivation technology thoroughly passivates the liner—and the wool inside—so that your liner is highly inert to a wide array of reactive analytes. This inertness increases peak symmetry and response, leading to better quantitation, accuracy, and precision.

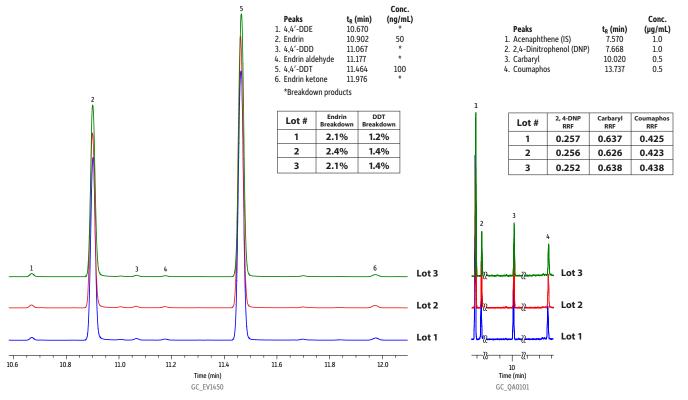
With deactivated Topaz liners, you prevent unwanted chemical interactions and minimize breakdown, which improves your data quality and dependability, and reduces instrument downtime. Even for low-level GC analysis of highly sensitive compounds—like 2,4-DNP, carbaryl, endrin, and DDT—these highly inert liners provide high-quality results that you'll have to see for yourself to believe.

The next level of True Blue Reproducibility

New Topaz inlet liners are made under strict manufacturing controls, followed by a battery of industry-specific QC tests, to prove that every lot we produce maintains superior reliability and outstanding inertness across a broad range of compound classes. By ensuring the utmost reproducibility in our liners, we help eliminate frustration and uncertainty in your work.

In the end, we don't test Topaz liners to exceed method requirements. We don't test Topaz liners to exceed industry norms. We manufacture and QC test Topaz liners to exceed your expectations and bring you the peace of mind that you can always depend on the quality and consistency of your data. Expect more—every time—with Topaz GC inlet liners.





nstrument Conditions for GC EV1450:

Column: Rxi-5ms, 15 m, 0.25 mm ID, 0.25 µm (cat.# 13420); Sample: Endrin (50 ng/mL) and DDT (100 ng/mL); Diluent: n-Hexane; Injection: Inj. Vol.: 1 µL splitless (hold 1.2 min); Liner: Topaz 4.0 mm single taper with wool (cat.# 23303); Inj. Temp.: 250 °C; Purge Flow: 20 mL/min; Oven: Oven Temp.: 50 °C (hold 1.2 min) to 240 °C at 20 °C/min to 265 °C at 6 °C/min; Carrier Gas: He, constant flow; Flow Rate: 1.5 mL/min; Detector: Micro-ECD @ 300 °C; Make-up Gas Flow Rate: 60 mL/min; Make-up Gas Type: N₂; Data Rate: 20 Hz; Instrument: Agilent 7890A GC.

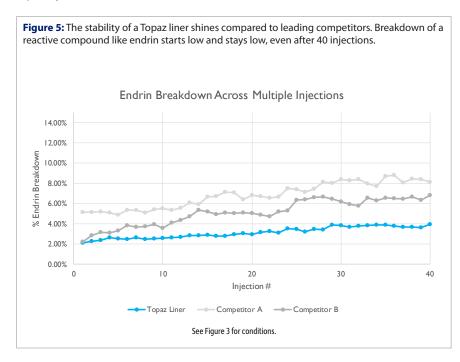
$Instrument\ Conditions\ for\ GC_QA0101:$

Column: Rxi-5ms, 15 m, 0.25 mm ID, 0.25 µm (cat.# 13420); Sample: Topaz liner FID test mix; Diluent: Methylene chloride; Injection: Inj. Vol.: 1 µL splitless (hold 1 min); Liner: Topaz 4.0 mm single taper liner with wool; Inj. Temp.: 250 °C; Purge Flow: 40 mL/min; Oven: Oven Temp.: 40 °C (hold 1 min) to 300 °C at 18.5 °C/min (hold 1 min); Carrier Gas: He, constant flow; Flow Rate: 2 mL/min; Detector: FID @ 340 °C; Make-up Gas Flow Rate: 45 mL/min; Make-up Gas Type: N₂; Hydrogen flow: 40 mL/min; Air flow: 400 mL/min; Data Rate: 50 Hz; Instrument: Agilent 7890A GC.

The next level of True Blue Productivity

Any time spent with your instrument offline—such as when changing your GC inlet liner or conditioning it afterward—directly ties to increased cost per analysis and decreased revenue for your lab... and raises the odds of yet another evening at the bench catching up on backlogged work for you. Whether you're standing in Restek's applications lab or at your own bench, it is imperative to keep running samples as long as possible, and when you do need to perform maintenance, to get back up and running as quickly as possible.

With the stability and inertness of a Topaz liner, you can analyze more samples before your data quality declines and you have to stop to replace your liner.



Topaz liners also feature blister packaging developed for superior cleanliness. The cleaner the liner, the less time you spend conditioning after changing your liner.



Greater instrument uptime translates into more samples run and more profit for your lab. Get it with the unparalleled stability and cleanliness of Topaz inlet liners.

Turn to the Ultimate in **Deactivation**, Reproducibility, and Productivity

Give yourself, your lab, and your customers the confidence you need in the data you generate—and the ability to keep your instruments running longer. Order your Topaz GC inlet liners today.

www.restek.com/topaz

Topaz Inlet Liners for Agilent GCs

Topuz fillet Elliers for Agricult des				
Split Liners for Agilent GCs	ID OD x Length	Similar to Agilent Part #	qty.	cat.#
RESTEK	1.0 mm	•	.,	
1 mm Split	6.3 mm x 78.5 mm		5-pk.	23333
RESTEK	4.0 mm			
4 mm Straight w/Wool	6.3 mm x 78.5 mm	5183-4691, 5190-3164	5-pk.	23300
RESTEK	2.0 mm			
2 mm Precision Liner w/Wool	6.3 mm x 78.5 mm		5-pk.	23468
RESTEK	4.0 mm			
4 mm Precision Liner w/Wool	6.3 mm x 78.5 mm	210-4004-5	5-pk.	23305
NAWAWAWA RESTEK	4.0 mm			
4 mm Cyclo	6.3 mm x 78.5 mm		5-pk.	23312
Splitless Liners for Agilent GCs	ID OD v Longth	Similar to	atu	cat #
RESTEK	OD x Length	Agilent Part #	qty.	cat.#
2 mm Splitless	2.0 mm 6.5 mm x 78.5 mm	5183-4703	5-pk.	23313
RESTEK		3103 4103	3 рк.	23313
2 mm Splitless w/Wool	2.0 mm 6.5 mm x 78.5 mm		5-pk.	23314
			3 рк.	23314
2 mm Single Taper	2.0 mm 6.5 mm x 78.5 mm		5-pk.	23315
RESTEK			о р.п.	25525
2 mm Single Taper w/Wool	2.0 mm 6.5 mm x 78.5 mm		5-pk.	23316
			о р.ш	25520
RESTEK 4 mm Straight	4.0 mm 6.3 mm x 78.5 mm	210-3003-05	5-pk.	23301
RESTEK		220 0000 00	о р.ш	20001
4 mm Straight w/Wool	4.0 mm 6.3 mm x 78.5 mm	5183-4691, 5190-3164	5-pk.	23300
RESTEK		3103 4031, 3130 3104	J più	23300
4 mm Single Taper	4.0 mm 6.5 mm x 78.5 mm	5183-4695	5-pk.	23302
RESTEK		0200 1000	о р.ш	25502
4 mm Single Taper w/Wool	4.0 mm 6.5 mm x 78.5 mm	5183-4693, 5190-3163	5-pk.	23303
RESTEK				
4 mm Double Taper	4.0 mm 6.5 mm x 78.5 mm	5183-4705	5-pk.	23308
RESTEK RESTEK			r ·	
4 mm Cyclo Double Taper	4.0 mm 6.5 mm x 78.5 mm		5-pk.	23310
·				
Split/Splitless Liners for Agilent GCs	ID	Similar to		
	OD x Length	Agilent Part #	qty.	cat.#
RESTÈK	4.0 mm			
4 mm Straight w/Wool	6.3 mm x 78.5 mm	5183-4691, 5190-3164	5-pk.	23300
RESTEK	4.0 mm			
Low Pressure Drop Precision Liner w/Wool	6.3 mm x 78.5 mm		5-pk.	23309
RESTEK	4.0 mm	F103 / 701 F103 / 710		
Low Pressure Drop Liner w/Wool	6.3 mm x 78.5 mm	5183-4701, 5183-4712, 5190-3165	5-pk.	23467

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Topaz Inlet Liners for Agilent GCs

CIS4 and PTV Liners for Agilent GCs	ID OD x Length	Similar to Agilent Part #	qty.	cat.#	
RESTEK On Column PTV	1.7 mm 3.0 mm x 71 mm		5-pk.	23430	
RESTEK	2.0 mm		-		
Single Baffle PTV	3.0 mm x 71 mm	5183-2036	10-pk.	23431	
RESTÊK	2.0 mm				
Single Baffle PTV w/Wool	3.0 mm x 71 mm	5183-2038	10-pk.	23432	
RESTEK	1.5 mm				
Baffled PTV	3.0 mm x 71 mm	5183-2037	10-pk.	23433	
CIS4/TDU Liners for Agilent GCs	ID OD x Length	Similar to Gerstel Part #	qty.	cat.#	
RESTEK	2.0 mm				
Single Baffle CIS4/TDU	3.0 mm x 78 mm	013775-010-00	10-pk.	23283	
RESTEK	2.0 mm				
Single Baffle CIS4/TDU w/Wool	3.0 mm x 78 mm	012742-010-00	10-pk.	23284	
RESTER	2.0 mm				
Baffled CIS4/TDU	3.0 mm x 78 mm	012436-010-00	10-pk.	23282	
Analytical Controls TPI Inlet Liners for Agilent GCs RESTÉK TPI for 0.53 mm ID columns	OD x Length 2.4 mm 4.0 mm x 71 mm		qty. 10-pk.	cat.# 23429	
RESTEK TPI for 0.25/0.32 mm ID columns	2.4 mm 4.0 mm x 71 mm		10-pk.	23428	
SPME Liners for Agilent GCs	ID OD x Length		qty.	cat.#	
RESTEK					
SPME Liner	0.75 mm				
	0.75 mm 6.35 mm x 78.5 mm		5-pk.	23434	
RESTEK SPME Liner	6.35 mm x 78.5 mm		·		
RESTEK SPME Liner	6.35 mm x 78.5 mm 1.8 mm 6.5 mm x 78.5 mm		5-pk. 5-pk.	23434	
	6.35 mm x 78.5 mm 1.8 mm 6.5 mm x 78.5 mm		·		
SPME Liner	6.35 mm x 78.5 mm 1.8 mm 6.5 mm x 78.5 mm		5-pk.	23280	
SPME Liner Direct Injection Liners for Agilent GCs (for 0.25/0.32/0.53 mm ID 0	6.35 mm x 78.5 mm 1.8 mm 6.5 mm x 78.5 mm Columns) ID OD x Length		5-pk.	23280	
Direct Injection Liners for Agilent GCs (for 0.25/0.32/0.53 mm ID (RESTEK Drilled Uniliner (hole near bottom)	6.35 mm x 78.5 mm 1.8 mm 6.5 mm x 78.5 mm Columns) ID OD x Length 4.0 mm		5-pk. qty.	23280 cat.#	
Direct Injection Liners for Agilent GCs (for 0.25/0.32/0.53 mm ID 0 RESTEK Drilled Uniliner (hole near bottom) RESTEK Drilled Uniliner (hole near bottom) w/Wool	6.35 mm x 78.5 mm 1.8 mm 6.5 mm x 78.5 mm Columns) ID OD x Length 4.0 mm 6.3 mm x 78.5 mm		5-pk. qty.	23280 cat.#	
Direct Injection Liners for Agilent GCs (for 0.25/0.32/0.53 mm ID (RESTEK Drilled Uniliner (hole near bottom)	6.35 mm x 78.5 mm 1.8 mm 6.5 mm x 78.5 mm Columns) ID OD x Length 4.0 mm 6.3 mm x 78.5 mm 4.0 mm		5-pk. qty. 5-pk.	23280 cat.# 23306	

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Topaz Inlet Liners for Bruker/Varian GCs

ID OD x Length		qty.	cat.#
-		40.	tutiff
		5 nk	23330
111111 C.51 X 111111 C.0		3-рк.	23330
4.0 mm			
6.3 mm x 78.5 mm		5-pk.	23328
4.0 mm			
6.5 mm x 78.5 mm		5-pk.	23331
/. 0 mm			
6.5 mm x 78.5 mm		5-pk.	23332
ID	Similar to		
OD x Length	Bruker/Varian Part #	qty.	cat.#
0.53 mm			
4.6 mm x 54 mm		5-pk.	23460
0.00			
	4984, 5122991	5-pk.	23461
	,	- F	
ID			
OD x Length		qty.	cat.#
3 4 mm			
5.0 mm x 54 mm		5-pk.	23329
		5-nk	23462
3.0 IIIII X 34 IIIIII		3-рк.	23402
2.0 mm			
5.0 mm x 54 mm		5-pk.	23463
0.75 mm			
5.0 mm x 54 mm		5-pk.	23465
2.4			
3.4 mm		5-pk.	23466
5 0 mm x 54 mm			
5.0 mm x 54 mm		3-рк.	23400
5.0 mm x 54 mm		3-рк.	23400
	6.3 mm x 78.5 mm 4.0 mm 6.5 mm x 78.5 mm 4.0 mm 6.5 mm x 78.5 mm 1D 0D x Length 0.53 mm 4.6 mm x 54 mm 0.80 mm 4.6 mm x 54 mm 1D 0D x Length 3.4 mm 5.0 mm x 54 mm 2.0 mm 5.0 mm x 54 mm 0.75 mm	6.3 mm x 78.5 mm 4.0 mm 6.3 mm x 78.5 mm 4.0 mm 6.5 mm x 78.5 mm 4.0 mm 6.5 mm x 78.5 mm ID Similar to Bruker/Varian Part # 0.53 mm 4.6 mm x 54 mm 0.80 mm 4.6 mm x 54 mm 4984, 5122991 ID OD x Length 3.4 mm 5.0 mm x 54 mm 2.0 mm 5.0 mm x 54 mm 0.75 mm	4.0 mm 6.3 mm x 78.5 mm 5-pk. 4.0 mm 6.3 mm x 78.5 mm 5-pk. 4.0 mm 6.5 mm x 78.5 mm 5-pk. 1D Similar to OD x Length Bruker/Varian Part # qty. 0.53 mm 4.6 mm x 54 mm 5-pk. 1D OD x Length qty. 3.4 mm 5.0 mm x 54 mm 5-pk. 3.4 mm 5.0 mm x 54 mm 5-pk. 2.0 mm 5.0 mm x 54 mm 5-pk.

Liners for DANI GCs	ID		
Lillers for DANI GCS	OD x Length	qty.	cat.#
RESTEK			
	0.8 mm	- 1	
0.8 mm ID Straight Liner	6.0 mm x 70 mm	5-pk.	23293
0.8 mm ID Straight Liner (includes: ferrule set)		5-pk.	23286
RESTEK			
	2.0 mm		
2.0 mm ID Straight Liner	6.0 mm x 70 mm	5-pk.	23292
2.0 mm ID Straight Liner (includes: ferrule set)		5-pk.	23285
RESTEK			
	2.2 mm	- 1	22201
2.2 mm ID Straight Liner w/Wool	4.0 mm x 85.7 mm	5-pk.	23291
© RESTEK	2.2 mm		
2.2 mm ID Dimpled Liner w/Wool	2.2 mm 4.0 mm x 55 mm	5-pk.	23296
•	4.0 IIIII X 55 IIIIII		
2.2 mm ID Dimpled Liner w/Wool (includes: ferrule set)		5-pk.	23289
RESTEK	4.0 mm		
4.0 mm ID Straight Liner	6.0 mm x 70 mm	5-pk.	23294
4.0 mm ID Straight Liner (includes: ferrule set)	0.0 111111 x 10 111111	•	23287
		5-pk.	23201
RESTEK	4.0 mm		
4.0 mm ID Straight Liner w/Wool	6.0 mm x 70 mm	5-pk.	23295
4.0 mm ID Straight Liner w/Wool (includes: ferrule set)	0.0 mm x 10 mm	5-pk.	23288
		υ-μκ.	23200
RESTEK	4.0 mm		
4.0 mm ID Single Taper Liner w/Wool	6.0 mm x 70 mm	5-pk.	23297
4.0 mm ID Single Taper Liner w/Wool (includes: ferrule set)		5-pk.	23290
5g.c Taper Ellier 11, 11001 (Illetades). Terrate Set/		5 pk.	

Topaz Inlet Liners for PerkinElmer GCs

Split Liners for PerkinElmer GCs	ID OD x Length	qty.	cat.#
	OD X Length	qty.	Cat.n
RESTEK	4.0 mm		
Splitter w/Wool	6.2 mm x 92.1 mm	5-pk.	23449
RESTEK	4.0 mm		
4 mm Split Precision Liner w/Wool	6.2 mm x 92.1 mm	5-pk.	23450
		- F	
Splitless Liners for PerkinElmer GCs	ID		
·	OD x Length	qty.	cat.#
RESTEK	2.0 mm		
2 mm Splitless w/Wool	6.2 mm x 92.1 mm	5-pk.	23451
PSS Liners for PerkinElmer GCs	ID		
1 33 Elliel 3 101 F CIRILLEUICI GGS	OD x Length	qty.	cat.#
RESTEK	2.0 mm		
Auto SYS XL PSS Split/Splitless w/Wool	4.0 mm x 86.2 mm	5-pk.	23317
		- F	
DI Liners for PerkinElmer GCs	ID		
DI LINEIS IOI PEIKINEUNEI GCS	OD x Length	qty.	cat.#
RESTEK	4.0 mm		
Open-Top Uniliner w/Wool	4.0 mm x 92.1 mm	5-pk.	23452
	512 HHI A 3212 HHI	o più	20.02
RESTÈK	2.0 mm		
PSS Drilled Uniliner (hole near top)	4.0 mm x 86.2 mm	5-pk.	23281
RESTEK	4.0 mm		
Drilled Uniliner (hole near top)	4.0 mm 6.2 mm x 92.1 mm	5-pk.	23453
·	V.E. HIII A J.E.I. HIIII	3 pik.	L3133
RESTEK	4.0 mm		
Drilled Uniliner (hole near bottom)	6.2 mm x 92.1 mm	5-pk.	23454

Topaz Inlet Liners for Shimadzu GCs

Cult Linear for Chimadau 174, 2010, and 2017, CCa	ID			
Split Liners for Shimadzu 17A, 2010, and 2014 GCs	OD x Length	qty.	cat.#	
RESTEK	3.5 mm			
3.5 mm Split	5.0 mm x 95 mm	5-pk.	23318	
RESTEK	3.5 mm			
3.5 mm Split w/Wool	5.0 mm x 95 mm	5-pk.	23319	
RESTEK	3.5 mm			
3.5 mm Precision Liner w/Wool	5.0 mm x 95 mm	5-pk.	23320	
RESTEK	3.5 mm			
Single Taper Precision Liner w/Wool	5.0 mm x 95 mm	5-pk.	23455	
() \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3.5 mm			
Cyclo	5.0 mm x 95 mm	5-pk.	23456	

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Topaz Inlet Liners for Shimadzu GCs

Splitless Liners for Shimadzu 17A, 2010, and 2014 GCs	ID		
Splittess Liners for Snimadzu 17A, 2010, and 2014 GCs	OD x Length	qty.	cat.#
RESTEK	3.5 mm		
3.5 mm Single Taper	5.0 mm x 95 mm	5-pk.	23321
RESTEK	3.5 mm		
3.5 mm Single Taper w/Wool	5.0 mm x 95 mm	5-pk.	23336
RESTEK			
3.5 mm Single Taper w/Wool	3.5 mm 5.0 mm x 95 mm	5-pk.	23322
	J.O IIIIII X 33 IIIIII	3-μκ.	23322
RESTEK)	3.5 mm		
Double Taper	5.0 mm x 95 mm	5-pk.	23457
	ID.		
Split/Splitless Liners for Shimadzu 17A, 2010, and 2014 GCs	ID OD x Length	qty.	cat.#
RESTÈK	-	.,	
Split/Splitless w/Wool	3.5 mm 5.0 mm x 95 mm	5-pk.	23458
opalijopalioso nj mod	0.0 50	о ри	20100
I' (cl.) starting	ID		
Liners for Shimadzu 17A PTV GCs	OD x Length	qty.	cat.#
RESTEK	1.6 mm		
PTV w/Wool	4.0 mm x 95 mm	5-pk.	23435
SPME Liners for Shimadzu 17A, 2010, and 2014 GCs	ID		
311-12 Enters for 31111114424 1711, 2010, 4114 2011 003	OD x Length	qty.	cat.#
RESTEK	1.8 mm		
SPME Liner	5.0 mm x 95 mm	5-pk.	23279
DI Liners for Shimadzu 17A, 2010, and 2014 GCs	ID		
	OD x Length	qty.	cat.#
RESTËK	3.5 mm		
Uniliner w/Wool	5.0 mm x 95 mm	5-pk.	23459
Liners for Shimadzu 2010 PTV GCs	ID		
	OD x Length	qty.	cat.#
RESTEK	1.5 mm		
PTV 2010	3.5 mm x 95 mm	10-pk.	23471
RESTEK	1.5 mm		
PTV 2010 w/Wool	3.5 mm x 95 mm	10-pk.	23472

Topaz Inlet Liners for Thermo Scientific GCs

Culit Linear for Thorne TRACE 9000 9000 TOR and Force CCI	ID			
Split Liners for Thermo TRACE, 8000, 8000 TOP, and Focus SSL	OD x Length	qty.	cat.#	
RESTEK				
RESTER	3.0 mm			
Split Straight	8.0 mm x 105 mm	5-pk.	23439	
N-COV				
RESTEK	3.0 mm			
Split Straight w/Wool	8.0 mm x 105 mm	5-pk.	23440	
RESTÊK	5.0 mm			
5 mm Straight	8.0 mm x 105 mm	5-pk.	23323	
RESTEK				
KESTER	5.0 mm			
5 mm Straight w/Wool	8.0 mm x 105 mm	5-pk.	23324	
RESTEK	5.0 mm			
5 mm Precision Liner w/Wool	8.0 mm x 105 mm	5-pk.	23327	

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Topaz Inlet Liners for Thermo Scientific GCs

Splitless Liners for Thermo TRACE, 8000, 8000 TOP, and Focus SSL	ID OD v Longth	atu	cat.#
	OD x Length	qty.	Cat.#
RESTEK	3.0 mm		
Splitless	8.0 mm x 105 mm	5-pk.	23441
RESTEK	3.0 mm		
Splitless w/Wool	8.0 mm x 105 mm	5-pk.	23442
RESTEK	5.0 mm		
Splitless Precision Liner w/Wool	8.0 mm x 105 mm	5-pk.	23443
RESTEK	5.0 mm		
5 mm Splitless	8.0 mm x 105 mm	5-pk.	23325
RESTEK	5.0 mm		
5 mm Splitless w/Wool	8.0 mm x 105 mm	5-pk.	23326
Split Liners for Thermo TRACE 1300/1310	ID		
	OD x Length	qty.	cat.#
RESTÊK	1.0 mm		
Split	6.3 mm x 78.5 mm	5-pk.	23448

Topaz Inlet Liners for Thermo Scientific GCs

Splitless Liners for Thermo TRACE 1300/1310	ID		
Splittess Liners for Thermo TRACE 1300/1310	OD x Length	qty.	cat.#
RESTEK			
Splitless Straight	4.0 mm 6.3 mm x 78.5 mm	5-pk.	23445
	0.5 111111 X 16.5 111111	3-рк.	23443
RESTEK	4.0 mm		
4 mm Splitless Single Taper	6.5 mm x 78.5 mm	5-pk.	23446
RESTEK			
4 mm Splitless Single Taper w/Wool	4.0 mm 6.5 mm x 78.5 mm	الماء	23447
4 mm spilless single Taper W/ Wool	mm c.81 x mm c.0	5-pk.	23441
Split/Splitless Liners for Thermo TRACE 1300/1310	ID		
Spirit Spiritess Emers for Thermo Harter 2500, 2520	OD x Length	qty.	cat.#
RESTEK	4.0 mm		
4 mm Split/Splitless Straight w/Wool	6.3 mm x 78.5 mm	5-pk.	23444
+ min space spacess straight w/ woot	0.5 mm x 10.5 mm	3 pr.	23777
Split Liners for Thermo Scientific TRACE PTV	ID		
	OD x Length	qty.	cat.#
RESTEX	1.0 mm		
Split PTV	2.75 mm x 120 mm	5-pk.	23436
-11			
RS1ÜX	2.0 mm		
Split PTV	2.75 mm x 120 mm	5-pk.	23437
MOTE	2.0 mm		
Baffled PTV	2.0 mm 2.75 mm x 120 mm	5-pk.	23438
Dalifed LLA	2.13 111111 x 120 111111	J-μк.	£J4J0
SPME Liner for Thermo TRACE 1300/1310	ID		
<u> </u>	OD x Length	qty.	cat.#
RESTEK	1.8 mm		
SPME Liner	6.5 mm x 78.5 mm	5-pk.	23278
		<u> </u>	
B I			

Patented

QUANTITY DISCOUNTS AVAILABLE for orders of five or more 5-packs!





What Will You Lose When You Switch to Topaz Liners?

Revolutionary Topaz deactivation results in unbelievably low breakdown and higher responses for active compounds—with each and every liner you order. These liners will help you generate more accurate and more precise low-level GC analyses and help prevent common data issues.



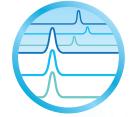
Eliminate Tailing Peaks



Avoid Loss in Response



Stop Analyte Breakdown



Reduce Liner-to-Liner Variability

What Will You Gain? Productivity.

Extend your uptime and generate more revenue with Topaz liners. Learn how inside.

* 100% SATISFACTION GUARANTEE: If your Topaz 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.



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