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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](http://www.restek.com/topaz)



\* For details, see back page.

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# The next level of True Blue Performance

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.

## Topaz Inlet Liners for Agilent GCs

Split Liners for Agilent GCs	ID OD x Length	Similar to Agilent Part #	qty.	cat.#
 1 mm Split	1.0 mm 6.3 mm x 78.5 mm		5-pk.	23333
 4 mm Straight w/Wool	4.0 mm 6.3 mm x 78.5 mm	5183-4691, 5190-3164	5-pk.	23300
 2 mm Precision Liner w/Wool	2.0 mm 6.3 mm x 78.5 mm		5-pk.	23468
 4 mm Precision Liner w/Wool	4.0 mm 6.3 mm x 78.5 mm	210-4004-5	5-pk.	23305
 4 mm Cyclo	4.0 mm 6.3 mm x 78.5 mm		5-pk.	23312

Splitless Liners for Agilent GCs	ID OD x Length	Similar to Agilent Part #	qty.	cat.#
 2 mm Splitless	2.0 mm 6.5 mm x 78.5 mm	5183-4703	5-pk.	23313
 2 mm Splitless w/Wool	2.0 mm 6.5 mm x 78.5 mm		5-pk.	23314
 2 mm Single Taper	2.0 mm 6.5 mm x 78.5 mm		5-pk.	23315
 2 mm Single Taper w/Wool	2.0 mm 6.5 mm x 78.5 mm		5-pk.	23316
 4 mm Straight	4.0 mm 6.3 mm x 78.5 mm	210-3003-05	5-pk.	23301
 4 mm Straight w/Wool	4.0 mm 6.3 mm x 78.5 mm	5183-4691, 5190-3164	5-pk.	23300
 4 mm Single Taper	4.0 mm 6.5 mm x 78.5 mm	5183-4695	5-pk.	23302
 4 mm Single Taper w/Wool	4.0 mm 6.5 mm x 78.5 mm	5183-4693, 5190-3163	5-pk.	23303
 4 mm Double Taper	4.0 mm 6.5 mm x 78.5 mm	5183-4705	5-pk.	23308
 4 mm Cyclo Double Taper	4.0 mm 6.5 mm x 78.5 mm		5-pk.	23310

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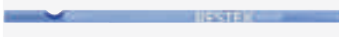





## Topaz inlet liners feature a 100% satisfaction guarantee.

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.



### Topaz Inlet Liners for Agilent GCs

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Split/Splitless Liners for Agilent GCs		ID OD x Length	Similar to Agilent Part #	qty.	cat.#
	4 mm Straight w/Wool	4.0 mm 6.3 mm x 78.5 mm	5183-4691, 5190-3164	5-pk.	23300
	Low Pressure Drop Precision Liner w/Wool	4.0 mm 6.3 mm x 78.5 mm		5-pk.	23309
	Low Pressure Drop Liner w/Wool	4.0 mm 6.3 mm x 78.5 mm	5183-4701, 5183-4712, 5190-3165	5-pk.	23467
CIS4 and PTV Liners for Agilent GCs		ID OD x Length	Similar to Agilent Part #	qty.	cat.#
	On Column PTV	1.7 mm 3.0 mm x 71 mm		5-pk.	23430
	Single Baffle PTV	2.0 mm 3.0 mm x 71 mm	5183-2036	10-pk.	23431
	Single Baffle PTV w/Wool	2.0 mm 3.0 mm x 71 mm	5183-2038	10-pk.	23432
	Baffled PTV	1.5 mm 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.#
	Single Baffle CIS4/TDU	2.0 mm 3.0 mm x 78 mm	013775-010-00	10-pk.	23283
	Single Baffle CIS4/TDU w/Wool	2.0 mm 3.0 mm x 78 mm	012742-010-00	10-pk.	23284
	Baffled CIS4/TDU	2.0 mm 3.0 mm x 78 mm	012436-010-00	10-pk.	23282
Analytical Controls TPI Inlet Liners for Agilent GCs		ID OD x Length		qty.	cat.#
	TPI for 0.53 mm ID columns	2.4 mm 4.0 mm x 71 mm		10-pk.	23429
	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.#
	SPME Liner	0.75 mm 6.35 mm x 78.5 mm		5-pk.	23434
	SPME Liner	1.8 mm 6.5 mm x 78.5 mm		5-pk.	23280

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## Topaz Inlet Liners for Agilent GCs

Direct Injection Liners for Agilent GCs (for 0.25/0.32/0.53 mm ID Columns)	ID OD x Length	qty.	cat.#
RESTEK Drilled Uniliner (hole near bottom)	4.0 mm 6.3 mm x 78.5 mm	5-pk.	23306
RESTEK Drilled Uniliner (hole near bottom) w/Wool	4.0 mm 6.3 mm x 78.5 mm	5-pk.	23307
RESTEK Drilled Uniliner (hole near top)	4.0 mm 6.3 mm x 78.5 mm	5-pk.	23311

## Topaz Inlet Liners for Bruker/Varian GCs

Liners for Bruker/Varian 1177 S/SL Injection Ports	ID OD x Length	qty.	cat.#
RESTEK 4 mm Split Liner w/Glass Frit	4.0 mm 6.3 mm x 78.5 mm	5-pk.	23330
RESTEK 4 mm Precision Liner w/Wool	4.0 mm 6.3 mm x 78.5 mm	5-pk.	23328
RESTEK 4 mm Single Taper	4.0 mm 6.5 mm x 78.5 mm	5-pk.	23331
RESTEK 4 mm Single Taper w/Wool	4.0 mm 6.5 mm x 78.5 mm	5-pk.	23332

SPI Liners for Bruker/Varian S/SL Injection Ports	ID OD x Length	Similar to Bruker/Varian Part #	qty.	cat.#
RESTEK SPI Liner	0.53 mm 4.6 mm x 54 mm		5-pk.	23460
RESTEK SPI Liner	0.80 mm 4.6 mm x 54 mm	4984, 5122991	5-pk.	23461

Liners for Bruker/Varian 1078/1079 Injection Ports	ID OD x Length	qty.	cat.#
RESTEK 3.4 mm Split-No Frit	3.4 mm 5.0 mm x 54 mm	5-pk.	23329
RESTEK Split w/Glass Frit	3.4 mm 5.0 mm x 54 mm	5-pk.	23462
RESTEK Splitless	2.0 mm 5.0 mm x 54 mm	5-pk.	23463
RESTEK SPME Liner	0.75 mm 5.0 mm x 54 mm	5-pk.	23465
RESTEK Split Precision Liner w/Wool	3.4 mm 5.0 mm x 54 mm	5-pk.	23466

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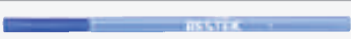




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## Topaz Inlet Liners for DANI GCs

Liners for DANI GCs	ID OD x Length	qty.	cat.#
 RESTEK	0.8 mm		
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		
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	4.0 mm x 55 mm	5-pk.	23296
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)		5-pk.	23287
 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)		5-pk.	23288
 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

## Topaz Inlet Liners for PerkinElmer GCs

Split Liners for PerkinElmer GCs	ID OD x Length	qty.	cat.#
 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
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 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
DI Liners for PerkinElmer GCs	ID OD x Length	qty.	cat.#
 RESTEK	4.0 mm		
Open-Top Uniliner w/Wool	6.2 mm x 92.1 mm	5-pk.	23452
 RESTEK	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)	6.2 mm x 92.1 mm	5-pk.	23453
 RESTEK	4.0 mm		
Drilled Uniliner (hole near bottom)	6.2 mm x 92.1 mm	5-pk.	23454





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## Topaz Inlet Liners for Shimadzu GCs


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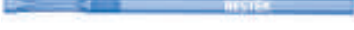
Split Liners for Shimadzu 17A, 2010, and 2014 GCs		ID OD x Length	qty.	cat.#
	3.5 mm Split	3.5 mm 5.0 mm x 95 mm	5-pk.	23318
	3.5 mm Split w/Wool	3.5 mm 5.0 mm x 95 mm	5-pk.	23319
	3.5 mm Precision Liner w/Wool	3.5 mm 5.0 mm x 95 mm	5-pk.	23320
	Single Taper Precision Liner w/Wool	3.5 mm 5.0 mm x 95 mm	5-pk.	23455
	Cyclo	3.5 mm 5.0 mm x 95 mm	5-pk.	23456



Splitless Liners for Shimadzu 17A, 2010, and 2014 GCs		ID OD x Length	qty.	cat.#
	3.5 mm Single Taper	3.5 mm 5.0 mm x 95 mm	5-pk.	23321
	3.5 mm Single Taper w/Wool	3.5 mm 5.0 mm x 95 mm	5-pk.	23336
	3.5 mm Single Taper w/Wool	3.5 mm 5.0 mm x 95 mm	5-pk.	23322
	Double Taper	3.5 mm 5.0 mm x 95 mm	5-pk.	23457

Split/Splitless Liners for Shimadzu 17A, 2010, and 2014 GCs		ID OD x Length	qty.	cat.#
	Split/Splitless w/Wool	3.5 mm 5.0 mm x 95 mm	5-pk.	23458

Liners for Shimadzu 17A PTV GCs		ID OD x Length	qty.	cat.#
	PTV w/Wool	1.6 mm 4.0 mm x 95 mm	5-pk.	23435

SPME Liners for Shimadzu 17A, 2010, and 2014 GCs		ID OD x Length	qty.	cat.#
	SPME Liner	1.8 mm 5.0 mm x 95 mm	5-pk.	23279

DI Liners for Shimadzu 17A, 2010, and 2014 GCs		ID OD x Length	qty.	cat.#
	Uniliner w/Wool	3.5 mm 5.0 mm x 95 mm	5-pk.	23459






Liners for Shimadzu 2010 PTV GCs		ID OD x Length	qty.	cat.#
	PTV 2010	1.5 mm 3.5 mm x 95 mm	10-pk.	23471
	PTV 2010 w/Wool	1.5 mm 3.5 mm x 95 mm	10-pk.	23472

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## Topaz Inlet Liners for Thermo Scientific GCs

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### Split Liners for Thermo TRACE, 8000, 8000 TOP, and Focus SSL

	ID OD x Length	qty.	cat.#
 Split Straight	3.0 mm 8.0 mm x 105 mm	5-pk.	23439
 Split Straight w/Wool	3.0 mm 8.0 mm x 105 mm	5-pk.	23440
 5 mm Straight	5.0 mm 8.0 mm x 105 mm	5-pk.	23323
 5 mm Straight w/Wool	5.0 mm 8.0 mm x 105 mm	5-pk.	23324
 5 mm Precision Liner w/Wool	5.0 mm 8.0 mm x 105 mm	5-pk.	23327

### Splitless Liners for Thermo TRACE, 8000, 8000 TOP, and Focus SSL

	ID OD x Length	qty.	cat.#
 Splitless	3.0 mm 8.0 mm x 105 mm	5-pk.	23441
 Splitless w/Wool	3.0 mm 8.0 mm x 105 mm	5-pk.	23442
 Splitless Precision Liner w/Wool	5.0 mm 8.0 mm x 105 mm	5-pk.	23443
 5 mm Splitless	5.0 mm 8.0 mm x 105 mm	5-pk.	23325
 5 mm Splitless w/Wool	5.0 mm 8.0 mm x 105 mm	5-pk.	23326

### Split Liners for Thermo TRACE 1300/1310

	ID OD x Length	qty.	cat.#
 Split	1.0 mm 6.3 mm x 78.5 mm	5-pk.	23448

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## Topaz Inlet Liners for Thermo Scientific GCs


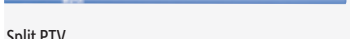
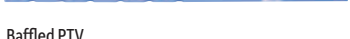
### Splitless Liners for Thermo TRACE 1300/1310

	ID OD x Length	qty.	cat.#
 Splitless Straight	4.0 mm 6.3 mm x 78.5 mm	5-pk.	23445
 4 mm Splitless Single Taper	4.0 mm 6.5 mm x 78.5 mm	5-pk.	23446
 4 mm Splitless Single Taper w/Wool	4.0 mm 6.5 mm x 78.5 mm	5-pk.	23447


### Split/Splitless Liners for Thermo TRACE 1300/1310

	ID OD x Length	qty.	cat.#
 4 mm Split/Splitless Straight w/Wool	4.0 mm 6.3 mm x 78.5 mm	5-pk.	23444

### Split Liners for Thermo Scientific TRACE PTV

	ID OD x Length	qty.	cat.#
 Split PTV	1.0 mm 2.75 mm x 120 mm	5-pk.	23436
 Split PTV	2.0 mm 2.75 mm x 120 mm	5-pk.	23437
 Baffled PTV	2.0 mm 2.75 mm x 120 mm	5-pk.	23438

### SPME Liner for Thermo TRACE 1300/1310

	ID OD x Length	qty.	cat.#
 SPME Liner	1.8 mm 6.5 mm x 78.5 mm	5-pk.	23278

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## Perfect Installation Every Time

There is never a question about which way to install a Topaz liner—simply orient it so that the column installs toward the "R" in the Restek logo.

\*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](http://www.restek.com/warranty)

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