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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

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* 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

Topaz Inlet Liners for Agilent GCs Equipped with Split/Splitless Inlets	ID x OD x Length	Similar to Agilent Part #	qty.	cat.#
 1.0 mm ID Straight Liner	1.0 mm x 6.3 mm x 78.5 mm	18740-80200 (ea.)	5-pk.	23333
 4.0 mm ID Straight Liner w/Wool	4.0 mm x 6.3 mm x 78.5 mm	19251-60540, 5190-2294 (ea.), 5183-4691, 5190-3164 (5-pk.), 5183-4692 (25-pk.)	5-pk.	23300
 2.0 mm ID Precision Liner w/Wool	2.0 mm x 6.3 mm x 78.5 mm		5-pk.	23468
 4.0 mm ID Precision Liner w/Wool	4.0 mm x 6.3 mm x 78.5 mm	210-4004-5	5-pk.	23305
 4.0 mm ID Cyclo Liner	4.0 mm x 6.3 mm x 78.5 mm		5-pk.	23312
 2.0 mm ID Straight Liner	2.0 mm x 6.5 mm x 78.5 mm	5181-8818, 5190-6168 (ea.), 5183-4703 (5-pk.), 5183-4704 (25-pk.)	5-pk.	23313
 2.0 mm ID Straight Liner w/Wool	2.0 mm x 6.5 mm x 78.5 mm		5-pk.	23314
 2.0 mm ID Single Taper Liner	2.0 mm x 6.5 mm x 78.5 mm		5-pk.	23315
 2.0 mm ID Single Taper Liner w/Wool	2.0 mm x 6.5 mm x 78.5 mm		5-pk.	23316
 3.0 mm ID Intermediate-Volume (IV) Single Taper Inlet Liner w/Wool	3.0 mm x 6.5 mm x 78.5 mm		5-pk.	27231
 4.0 mm ID Straight Liner	4.0 mm x 6.3 mm x 78.5 mm	210-3003 (ea.), 210-3003-5 (5-pk.)	5-pk.	23301
 4.0 mm ID Single Taper Liner	4.0 mm x 6.5 mm x 78.5 mm	5181-3316, 5190-2292 (ea.), 5183-4695, 5190-3162 (5-pk.), 5183-4696 (25-pk.)	5-pk.	23302
 4.0 mm ID Single Taper Liner w/Wool	4.0 mm x 6.5 mm x 78.5 mm	5062-3587, 5190-2293 (ea.), 5183-4693, 5190-3163 (5-pk.), 5183-4694 (25-pk.)	5-pk.	23303
 4.0 mm ID Double Taper Liner	4.0 mm x 6.5 mm x 78.5 mm	5181-3315, 5190-3983 (ea.), 5183-4705, 5190-4007 (5-pk.), 5183-4706 (25-pk.)	5-pk.	23308
 4.0 mm ID Cyclo Double Taper Liner	4.0 mm x 6.5 mm x 78.5 mm		5-pk.	23310
 4.0 mm ID Low Pressure Drop Precision Liner w/Wool	4.0 mm x 6.3 mm x 78.5 mm	5183-4711 (ea.), 5183-4712 (5-pk.), 5183-4713 (25-pk.)	5-pk.	23309
 4.0 mm ID Low Pressure Drop Liner w/Wool	4.0 mm x 6.3 mm x 78.5 mm	5183-4647, 5190-2295 (ea.), 5183-4701, 5190-3165 (5-pk.)	5-pk.	23467

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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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Topaz Inlet Liners for Agilent GCs Equipped with CIS4/PTV Inlets		ID x OD x Length	Similar to Agilent Part #	qty.	cat.#
	1.7 mm ID On-Column PTV Liner	1.7 mm x 3.0 mm x 71 mm		5-pk.	23430
	2.0 mm ID Single Baffle PTV Liner	2.0 mm x 3.0 mm x 71 mm	5183-2036	10-pk.	23431
	2.0 mm ID Single Baffle PTV Liner w/Wool	2.0 mm x 3.0 mm x 71 mm	5183-2038	10-pk.	23432
	1.5 mm ID Baffled PTV Liner	1.5 mm x 3.0 mm x 71 mm	5183-2037	10-pk.	23433
Topaz Inlet Liners for Agilent GCs Equipped with CIS4/TDU Inlets		ID x OD x Length	Similar to Gerstel Part #	qty.	cat.#
	2.0 mm ID Single Baffle CIS4/TDU Liner	2.0 mm x 3.0 mm x 78 mm	013775-010-00	10-pk.	23283
	2.0 mm ID Single Baffle CIS4/TDU Liner w/Wool	2.0 mm x 3.0 mm x 78 mm	012742-010-00	10-pk.	23284
	2.0 mm ID Baffled CIS4/TDU Liner	2.0 mm x 3.0 mm x 78 mm	012436-010-00	10-pk.	23282
Topaz Inlet Liners for Agilent GCs Equipped with Analytical Controls TPI Inlets		ID x OD x Length	Similar to Agilent Part #	qty.	cat.#
	2.4 mm ID TPI Liner for 0.53 mm ID Columns	2.4 mm x 4.0 mm x 71 mm	5190-4048 (ea.), 5190-4056 (5-pk.)	10-pk.	23429
	2.4 mm ID TPI Liner for 0.25/0.32 mm ID Columns	2.4 mm x 4.0 mm x 71 mm		10-pk.	23428
Topaz Inlet Liners for Agilent GCs Equipped with Split/Splitless Inlets SPME Injections		ID x OD x Length		qty.	cat.#
	0.75 mm ID Straight/SPME Liner	0.75 mm x 6.35 mm x 78.5 mm		5-pk.	23434
	1.8 mm ID Straight/SPME Liner	1.8 mm x 6.5 mm x 78.5 mm		5-pk.	23280
Direct Injection (for 0.25/0.32/0.53 mm ID Columns)		ID x OD x Length	Similar to Agilent Part #	qty.	cat.#
	4.0 mm ID Drilled Uniliner Liner (hole near bottom)	4.0 mm x 6.3 mm x 78.5 mm	G1544-80730 (ea.)	5-pk.	23306
	4.0 mm ID Drilled Uniliner Liner w/Wool (hole near bottom)	4.0 mm x 6.3 mm x 78.5 mm	5190-7020 (5-pk.)	5-pk.	23307
	4.0 mm ID Drilled Uniliner Liner (hole near top)	4.0 mm x 6.3 mm x 78.5 mm		5-pk.	23311

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

Topaz Inlet Liners for Scion/Bruker/Varian GCs

Topaz Inlet Liners for Scion/Bruker/Varian GCs Equipped with 1177 Split/Splitless Inlets		ID x OD x Length	Similar to Scion/Bruker/Varian Part #	qty.	cat.#
	3.0 mm ID Intermediate-Volume (IV) Single Taper Inlet Liner w/Wool	3.0 mm x 6.5 mm x 78.5 mm		5-pk.	27231
	4.0 mm ID Frit Liner	4.0 mm x 6.3 mm x 78.5 mm		5-pk.	23330
	4.0 mm ID Precision Liner w/Wool	4.0 mm x 6.3 mm x 78.5 mm		5-pk.	23328
	4.0 mm ID Single Taper Liner	4.0 mm x 6.5 mm x 78.5 mm	392611927	5-pk.	23331
	4.0 mm ID Single Taper Liner w/Wool	4.0 mm x 6.5 mm x 78.5 mm	392611936	5-pk.	23332
Topaz Inlet Liners for Scion/Bruker/Varian GCs Equipped with SPI Inlets		ID x OD x Length	Similar to Scion/Bruker/Varian Part #	qty.	cat.#
	0.53 mm ID Straight Liner	0.53 mm x 4.6 mm x 54 mm	190010906	5-pk.	23460
	0.80 mm ID Straight Liner	0.80 mm x 4.6 mm x 54 mm	190010907	5-pk.	23461
Topaz Inlet Liners for Scion/Bruker/Varian GCs Equipped with 1078/1079 Inlets		ID x OD x Length	Similar to Scion/Bruker/Varian Part #	qty.	cat.#
	3.4 mm ID Liner with Top Taper	3.4 mm x 5.0 mm x 54 mm	392611945	5-pk.	23329
	3.4 mm ID Frit Liner with Top Taper	3.4 mm x 5.0 mm x 54 mm	392611946	5-pk.	23462
	2.0 mm ID Liner with Single Taper	2.0 mm x 5.0 mm x 54 mm	392611947	5-pk.	23463
	0.75 mm ID Straight/SPME Liner	0.75 mm x 5.0 mm x 54 mm	392611948	5-pk.	23465
	3.4 mm ID Precision Top Taper Liner w/Wool	3.4 mm x 5.0 mm x 54 mm		5-pk.	23466

Topaz Inlet Liners for DANI GCs

Topaz Inlet Liners for DANI GCs		ID x OD x Length	qty.	cat.#
	2.0 mm ID Straight Liner	2.0 mm x 6.0 mm x 70 mm	5-pk.	23292
	2.2 mm ID Dimpled Liner w/Wool	2.2 mm x 4.0 mm x 55 mm	5-pk.	23296
	2.2 mm ID Dimpled Liner w/Wool (includes: ferrule set)	2.2 mm x 4.0 mm x 55 mm	5-pk.	23289
	4.0 mm ID Straight Liner	4.0 mm x 6.0 mm x 70 mm	5-pk.	23294
	4.0 mm ID Straight Liner w/Wool	4.0 mm x 6.0 mm x 70 mm	5-pk.	23295
	4.0 mm ID Straight Liner w/Wool (includes: ferrule set)	4.0 mm x 6.0 mm x 70 mm	5-pk.	23288
	4.0 mm ID Single Taper Liner w/Wool	4.0 mm x 6.0 mm x 70 mm	5-pk.	23297
	4.0 mm ID Single Taper Liner w/Wool (includes: ferrule set)	4.0 mm x 6.0 mm x 70 mm	5-pk.	23290

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Topaz Inlet Liners for PerkinElmer GCs

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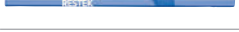
Topaz Inlet Liners for PerkinElmer Clarus 590/690 and GC2400 GCs Equipped with Split/Splitless Inlets		ID x OD x Length	Similar to PerkinElmer Part #	qty.	cat.#
	0.75 mm ID Straight/SPME Inlet Liner	0.75 mm x 6.35 x 78.5	N6502044	5-pk.	23803
	1.0 mm Straight Inlet Liner	1.0 mm x 6.3 x 78.5	N6502037	5-pk.	23802
	2.0 mm ID Straight Inlet Liner	2.0 mm x 6.5 x 78.5	N6502033	5-pk.	23798
	4.0 mm ID Straight Inlet Liner w/Wool	4.0 mm x 6.3 x 78.5	N6502036	5-pk.	23801
	4.0 mm ID Precision Inlet Liner w/Wool	4.0 mm x 6.3 x 78.5	N6502034	5-pk.	23799
	3.0 mm ID Intermediate-Volume (IV) Single Taper Inlet Liner w/Wool	3.0 mm x 6.5 mm x 78.5 mm	—	5-pk.	27231
	4.0 mm ID Single Taper Inlet Liner	4.0 mm x 6.5 x 78.5	N6502031	5-pk.	23796
	4.0 mm ID Single Taper Inlet Liner w/Wool	4.0 mm x 6.5 x 78.5	N6502035	5-pk.	23800
	4.0 mm ID Low Pressure Drop Precision Inlet Liner w/Wool	4.0 mm x 6.3 x 78.5	N6502032	5-pk.	23797
Topaz Inlet Liners for PerkinElmer Auto SYS and Clarus 580/680 GCs Equipped with Split/Splitless Inlets		ID x OD x Length	Similar to PerkinElmer Part #	qty.	cat.#
	4.0 mm ID Straight Liner w/Wool	4.0 mm x 6.2 mm x 92.1 mm	N6502009	5-pk.	23449
	4.0 mm ID Precision Liner w/Wool	4.0 mm x 6.2 mm x 92.1 mm	N6121020	5-pk.	23450
	2.0 mm ID Straight Liner w/Wool	2.0 mm x 6.2 mm x 92.1 mm	N6121021	5-pk.	23451
Topaz Inlet Liners for PerkinElmer GCs Equipped with PSS Inlets		ID x OD x Length	Similar to PerkinElmer Part #	qty.	cat.#
	2.0 mm ID Straight Liner w/Wool	2.0 mm x 4.0 mm x 86.2 mm	N6121004	5-pk.	23317
Topaz Inlet Liners for PerkinElmer Auto SYS and Clarus 580/680 GCs Equipped with Split/Splitless Inlets: Direct Injection		ID x OD x Length	Similar to PerkinElmer Part #	qty.	cat.#
	4.0 mm ID Open-Top Uniliner Liner w/Wool	4.0 mm x 6.2 mm x 92.1 mm	N6502016	5-pk.	23452
	4.0 mm ID Drilled Uniliner Liner (hole near top)	4.0 mm x 6.2 mm x 92.1 mm	N6121022	5-pk.	23453
	4.0 mm ID Drilled Uniliner Liner (hole near bottom)	4.0 mm x 6.2 mm x 92.1 mm	N6502013	5-pk.	23454
Topaz Inlet Liners for PerkinElmer GCs Equipped with PSS Inlets: Direct Injection		ID x OD x Length		qty.	cat.#
	2.0 mm ID Drilled Uniliner (hole near top)	2.0 mm x 4.0 mm x 86.2 mm		5-pk.	23281

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

Topaz Inlet Liners for Shimadzu GCs

Topaz Inlet Liners for Shimadzu 17A, 2010, and 2014 GCs Equipped with Split/Splitless Inlets

	ID x OD x Length	Similar to Shimadzu Part #	qty.	cat.#
 3.5 mm ID Straight Liner	3.5 mm x 5.0 mm x 95 mm	221-41444-01	5-pk.	23318
 3.5 mm ID Straight Liner w/Wool	3.5 mm x 5.0 mm x 95 mm		5-pk.	23319
 3.5 mm ID Precision Liner w/Wool	3.5 mm x 5.0 mm x 95 mm		5-pk.	23320
 3.5 mm ID Single Taper Precision Liner w/Wool	3.5 mm x 5.0 mm x 95 mm		5-pk.	23455
 3.5 mm ID Cyclo Single Taper Liner	3.5 mm x 5.0 mm x 95 mm		5-pk.	23456
 3.0 mm Intermediate-Volume (IV) Single Taper Inlet Liner w/Wool for Shimadzu GCs	3.0 mm x 5 mm x 95 mm		5-pk.	27232
 3.5 mm ID Single Taper Liner	3.5 mm x 5.0 mm x 95 mm	221-48335-01	5-pk.	23321
 3.5 mm ID Single Taper Liner w/Wool	3.5 mm x 5.0 mm x 95 mm		5-pk.	23336
 3.5 mm ID Single Taper Liner w/Wool	3.5 mm x 5.0 mm x 95 mm		5-pk.	23322
 3.5 mm ID Double Taper Liner	3.5 mm x 5.0 mm x 95 mm		5-pk.	23457
 3.5 mm ID Straight Liner w/Wool	3.5 mm x 5.0 mm x 95 mm	221-41444-00	5-pk.	23458

Topaz Inlet Liners for Shimadzu 17A GCs Equipped with PTV Inlets

	ID x OD x Length	Similar to Shimadzu Part #	qty.	cat.#
 1.6 mm ID Straight PTV Liner w/Wool	1.6 mm x 4.0 mm x 95 mm	225-09212-01	5-pk.	23435

Topaz Inlet Liners for Shimadzu 17A, 2010, and 2014 GCs Equipped with Split/Splitless Inlets: SPME Injection

	ID x OD x Length	qty.	cat.#
 1.8 mm ID Straight/SPME Liner	1.8 mm x 5.0 mm x 95 mm	5-pk.	23279

Topaz Inlet Liners for Shimadzu 17A, 2010, and 2014 GCs Equipped with Split/Splitless Inlets: Direct Injection

	ID x OD x Length	qty.	cat.#
 3.5 mm ID Unliner Liner w/Wool	3.5 mm x 5.0 mm x 95 mm	5-pk.	23459

Topaz Inlet Liners for Shimadzu 2010 GCs Equipped with PTV inlets

	ID x OD x Length	qty.	cat.#
 1.5 mm ID Straight PTV Liner	1.5 mm x 3.5 mm x 95 mm	10-pk.	23471
 1.5 mm ID Straight PTV Liner w/Wool	1.5 mm x 3.5 mm x 95 mm	10-pk.	23472

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Topaz Inlet Liners for Thermo Scientific GCs

Topaz Inlet Liners for Thermo Scientific TRACE, 8000, 8000 TOP, and Focus GCs Equipped with Split/Splitless Inlets

	ID x OD x Length	Similar to Thermo Part #	qty.	cat.#
 3.0 mm ID Straight Liner	3.0 mm x 8.0 mm x 105 mm	453 20031	5-pk.	23439
 3.0 mm ID Straight Liner w/Wool	3.0 mm x 8.0 mm x 105 mm		5-pk.	23440
 5.0 mm ID Straight Liner	5.0 mm x 8.0 mm x 105 mm	453 20030	5-pk.	23323
 5.0 mm ID Straight Liner w/Wool	5.0 mm x 8.0 mm x 105 mm		5-pk.	23324
 5.0 mm ID Precision Liner w/Wool	5.0 mm x 8.0 mm x 105 mm		5-pk.	23327
 3.0 mm ID Single Taper Liner	3.0 mm x 8.0 mm x 105 mm	453 20032	5-pk.	23441
 3.0 mm ID Single Taper Liner w/Wool	3.0 mm x 8.0 mm x 105 mm		5-pk.	23442
 5.0 mm ID Precision Liner with Single Taper w/Wool	5.0 mm x 8.0 mm x 105 mm		5-pk.	23443
 5.0 mm ID Single Taper Liner	5.0 mm x 8.0 mm x 105 mm	453 20033	5-pk.	23325
 5.0 mm ID Single Taper Liner w/Wool	5.0 mm x 8.0 mm x 105 mm		5-pk.	23326

Topaz Inlet Liners for Thermo Scientific TRACE 1300/1310 and 1600/1610 GCs Equipped with Split/Splitless Inlets

	ID x OD x Length	Similar to Thermo Part #	qty.	cat.#
 1.0 mm ID Straight Liner	1.0 mm x 6.3 mm x 78.5 mm		5-pk.	23448
 4.0 mm ID Precision Liner w/Wool	4.0 mm x 6.3 mm x 78.5 mm	453A1255UI	5-pk.	23267
 4.0 mm ID Cyclo Liner	4.0 mm x 6.3 mm x 78.5 mm		5-pk.	23269
 3.0 mm ID Intermediate-Volume (IV) Single Taper Inlet Liner w/Wool	3.0 mm x 6.5 mm x 78.5 mm		5-pk.	27231
 4.0 mm ID Straight Liner	4.0 mm x 6.3 mm x 78.5 mm	453A1295-UI	5-pk.	23445
 4.0 mm ID Single Taper Liner	4.0 mm x 6.5 mm x 78.5 mm	453A1345-UI	5-pk.	23446
 4.0 mm ID Single Taper Liner w/Wool	4.0 mm x 6.5 mm x 78.5 mm	453A1925-UI	5-pk.	23447
 4.0 mm ID Cyclo Double Taper Liner	4.0 mm x 6.5 mm x 78.5 mm		5-pk.	23270
 4.0 mm ID Straight Liner w/Wool	4.0 mm x 6.3 mm x 78.5 mm	453A2265-UI	5-pk.	23444
 4.0 mm ID Low Pressure Drop Precision Liner w/Wool	4.0 mm x 6.3 mm x 78.5 mm		5-pk.	23268

Topaz Inlet Liners for Thermo Scientific TRACE 1300/1310 and 1600/1610 GCs Equipped with Split/Splitless Inlets: SPME Injections

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

Topaz Inlet Liners for Thermo Scientific TRACE GCs Equipped with PTV Inlets

	ID x OD x Length	Similar to Thermo Part #	qty.	cat.#
 1.0 mm ID Straight PTV Liner	1.0 mm x 2.75 mm x 120 mm	453 22054	5-pk.	23436
 2.0 mm ID Split PTV Liner	2.0 mm x 2.75 mm x 120 mm	453 22045	5-pk.	23437
 2.0 mm ID Baffled PTV Liner	2.0 mm x 2.75 mm x 120 mm	453T2845-UI	5-pk.	23438

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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

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