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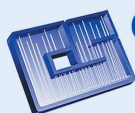
- Accurate Data
- The Right Results Fast
- Maximized Instrument Uptime



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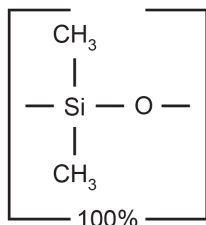
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Similar to: (100%-methyl)-polysiloxane

ordering notes

Custom lengths and film thicknesses available. Contact Customer Service or your local Restek representative.

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Stringent quality testing ensures consistent performance, column to column and injection to injection.

Rxi-1ms Columns (fused silica)

nonpolar phase; Crossbond dimethyl polysiloxane

- General-purpose columns for arson accelerants, essential oils, hydrocarbons, pesticides, PCB congeners (e.g., Aroclor mixes), sulfur compounds, solvent impurities, simulated distillation, oxygenates, gasoline range organics (GRO).
- Tested and guaranteed for ultra-low bleed; improved signal-to-noise ratio for better sensitivity and mass spectral integrity.
- Temperature range: -60 °C to 330/350 °C.
- Equivalent to USP G1, G2, and G38 phases.

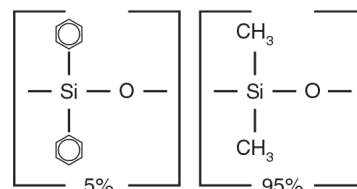
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0.10 mm	0.10 µm	1.1 m (±3 cm)	-60 to 330/350 °C	ea.	15106
	0.10 µm	10 m	-60 to 330/350 °C	ea.	13301
	0.15 µm	10 m	-60 to 330/350 °C	ea.	43800
0.15 mm	0.15 µm	20 m	-60 to 330/350 °C	ea.	43801
	2.0 µm	20 m	-60 to 330/350 °C	ea.	43802
	0.18 µm	20 m	-60 to 330/350 °C	ea.	13302
0.18 mm	0.36 µm	20 m	-60 to 330/350 °C	ea.	13311
	0.33 µm	12 m	-60 to 330/350 °C	ea.	13397
	0.33 µm	12 m	-60 to 330/350 °C	6-pk.	13397-600
0.20 mm	0.33 µm	25 m	-60 to 330/350 °C	ea.	13398
	0.33 µm	50 m	-60 to 330/350 °C	ea.	13399
	0.25 µm	15 m	-60 to 330/350 °C	ea.	13320
0.25 mm	0.25 µm	15 m	-60 to 330/350 °C	6-pk.	13320-600
	0.25 µm	30 m	-60 to 330/350 °C	ea.	13323
	0.25 µm	60 m	-60 to 330/350 °C	ea.	13326
	0.50 µm	15 m	-60 to 330/350 °C	ea.	13335
	0.50 µm	30 m	-60 to 330/350 °C	ea.	13338
	0.50 µm	60 m	-60 to 330/350 °C	ea.	13341
	1.00 µm	15 m	-60 to 330/350 °C	ea.	13350
	1.00 µm	30 m	-60 to 330/350 °C	ea.	13353
	1.00 µm	60 m	-60 to 330/350 °C	ea.	13356
0.32 mm	0.25 µm	15 m	-60 to 330/350 °C	ea.	13321
	0.25 µm	30 m	-60 to 330/350 °C	ea.	13324
	0.25 µm	60 m	-60 to 330/350 °C	ea.	13327
	0.50 µm	15 m	-60 to 330/350 °C	ea.	13336
	0.50 µm	30 m	-60 to 330/350 °C	ea.	13339
	0.50 µm	60 m	-60 to 330/350 °C	ea.	13342
	1.00 µm	30 m	-60 to 330/350 °C	ea.	13354
	1.00 µm	60 m	-60 to 330/350 °C	ea.	13357
	4.00 µm	30 m	-60 to 330/350 °C	ea.	13396
0.53 mm	0.50 µm	15 m	-60 to 330/350 °C	ea.	13337
	0.50 µm	30 m	-60 to 330/350 °C	ea.	13340
	1.00 µm	15 m	-60 to 330/350 °C	ea.	13352
	1.00 µm	30 m	-60 to 330/350 °C	ea.	13355
	1.50 µm	15 m	-60 to 330/350 °C	ea.	13367
	1.50 µm	30 m	-60 to 330/350 °C	ea.	13370
	1.50 µm	60 m	-60 to 330/350 °C	ea.	13373

Rxi-5ms Columns (fused silica)

low-polarity phase; Crossbond diphenyl dimethyl polysiloxane

- Ideal for pesticides in food.
- General-purpose columns that can be used for phenols, residual solvents, drugs of abuse, pesticides, semivolatiles, PCB congeners (e.g., Aroclor mixes), and solvent impurities.
- Tested and guaranteed for ultra-low bleed; improved signal-to-noise ratio for better sensitivity and mass spectral integrity.
- Temperature range: -60 °C to 330/350 °C.
- Equivalent to USP G27 and G36 phases.

ID	df	Length	Temp. Limits	qty.	cat.#
Rxi-5ms					
0.10 mm	0.10 µm	10 m	-60 to 330/350 °C	ea.	13401
	0.18 µm	20 m	-60 to 330/350 °C	ea.	13402
0.18 mm	0.30 µm	20 m	-60 to 330/350 °C	ea.	13409
	0.36 µm	20 m	-60 to 330/350 °C	ea.	13411
0.20 mm	0.33 µm	12 m	-60 to 330/350 °C	ea.	13497
	0.33 µm	25 m	-60 to 330/350 °C	ea.	13498
	0.33 µm	50 m	-60 to 330/350 °C	ea.	13499
	0.25 µm	15 m	-60 to 330/350 °C	ea.	13420
0.25 mm	0.25 µm	30 m	-60 to 330/350 °C	ea.	13423
	0.25 µm	30 m	-60 to 330/350 °C	6-pk.	13423-600
	0.25 µm	60 m	-60 to 330/350 °C	ea.	13426
	0.40 µm	30 m	-60 to 330/350 °C	ea.	13481
	0.50 µm	15 m	-60 to 330/350 °C	ea.	13435
	0.50 µm	30 m	-60 to 330/350 °C	ea.	13438
	0.50 µm	60 m	-60 to 330/350 °C	ea.	13441
	1.00 µm	15 m	-60 to 330/350 °C	ea.	13450
0.32 mm	1.00 µm	30 m	-60 to 330/350 °C	ea.	13453
	1.00 µm	60 m	-60 to 330/350 °C	ea.	13456
	0.25 µm	15 m	-60 to 330/350 °C	ea.	13421
	0.25 µm	30 m	-60 to 330/350 °C	ea.	13424
	0.25 µm	60 m	-60 to 330/350 °C	ea.	13427
	0.50 µm	15 m	-60 to 330/350 °C	ea.	13436
	0.50 µm	30 m	-60 to 330/350 °C	ea.	13439
	0.50 µm	60 m	-60 to 330/350 °C	ea.	13442
0.53 mm	1.00 µm	15 m	-60 to 330/350 °C	ea.	13451
	1.00 µm	30 m	-60 to 330/350 °C	ea.	13454
	1.00 µm	60 m	-60 to 330/350 °C	ea.	13457
	0.25 µm	15 m	-60 to 330/350 °C	ea.	13422
	0.25 µm	30 m	-60 to 330/350 °C	ea.	13425
	0.50 µm	15 m	-60 to 330/350 °C	ea.	13437
	0.50 µm	30 m	-60 to 330/350 °C	ea.	13440
	1.00 µm	15 m	-60 to 330/350 °C	ea.	13452
	1.00 µm	30 m	-60 to 330/350 °C	ea.	13455
	1.00 µm	30 m	-60 to 330/350 °C	6-pk.	13455-600
	1.50 µm	15 m	-60 to 330/350 °C	ea.	13467
	1.50 µm	30 m	-60 to 330/350 °C	ea.	13470



Similar to: (5%-phenyl)-methylpolysiloxane

ordering notes

Custom lengths and film thicknesses available. Contact Customer Service or your local Restek representative.

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Rxi-XLB Columns (fused silica)

low-polarity proprietary phase

- General-purpose columns with unique selectivity. Ideal for many GC-MS applications, including pesticides, PCB congeners (e.g., Aroclor mixes), PAHs.
- High thermal stability; exhibits extremely low bleed.
- Temperature range: 30 °C to 360 °C.

Improvements in polymer synthesis and tubing deactivation enable us to make inert, stable Rxi-XLB columns especially well-suited for analyzing active, high molecular weight compounds with sensitive GC-MS systems, including ion trap detectors. Excellent efficiency, coupled with inertness, low bleed, and high thermal stability, make Rxi-XLB columns ideal for analyzing semivolatile compounds in drinking water.

Rxi-XLB columns are a great choice for semivolatile organics analysis by EPA Method 525.2. An Rxi-XLB column plus some simple adjustments to the injection conditions can greatly improve sensitivity for active and high molecular weight Method 525.2 target compounds.

ID	df	Length	Temp. Limits	qty.	cat.#
Rxi-XLB					
0.10 mm	0.10 µm	10 m	30 to 340/360 °C	ea.	43701
0.18 mm	0.18 µm	20 m	30 to 340/360 °C	ea.	43702
0.25 mm	0.10 µm	15 m	30 to 340/360 °C	ea.	13705
	0.10 µm	30 m	30 to 340/360 °C	ea.	13708
	0.25 µm	15 m	30 to 340/360 °C	ea.	13720
	0.25 µm	30 m	30 to 340/360 °C	ea.	13723
	0.25 µm	60 m	30 to 340/360 °C	ea.	13726
	0.50 µm	30 m	30 to 340/360 °C	ea.	13738
	1.00 µm	30 m	30 to 340/360 °C	ea.	13753
0.32 mm	0.25 µm	30 m	30 to 340/360 °C	ea.	13724
	0.25 µm	60 m	30 to 340/360 °C	ea.	13727
	0.50 µm	30 m	30 to 340/360 °C	ea.	13739
0.53 mm	1.00 µm	30 m	30 to 340/360 °C	ea.	13754
	0.50 µm	30 m	30 to 320/360 °C	ea.	13740



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Rxi-SVOCms Columns (fused silica)
Proprietary 5% phenyl-type phase

Named Best New Separations Product of the Year in SelectScience Scientists' Choice Awards, as voted by scientists around the world.



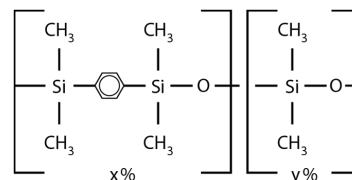
Special Offer: Get 50% off first-time Rxi-SVOCms column purchases until 31 December 2022 when you buy from Restek. Get details!

Special Offer: Save 30% today when you purchase a GC bundle for semivolatiles analysis (includes Rxi-SVOCms GC column and reference standards). Offer expires 31 December 2022. Get details!

- Column chemistry optimized specifically to give premium performance for semivolatiles in complex matrices.
- Long column lifetime—restore performance with a quick trim instead of a time-consuming replacement.
- Outstanding inertness keeps calibrations passing and samples running.
- Excellent resolution of critical pairs for improved accuracy.
- Consistent column-to-column performance.
- Engineered to be a low-bleed GC-MS column.
- Temperature range: -60 °C to 340 °C.
- Equivalent to USP G27 and G36 phases.

Rxi-SVOCms columns keep your instrument online and analyzing semivolatiles (SVOC) samples instead of offline for time-consuming recalibration or column replacement. Designed specifically for improved semivolatiles performance, Rxi-SVOCms columns ensure consistent chromatography that will keep calibrations passing longer, so you can run more samples before needing to recalibrate the instrument or replace the column.

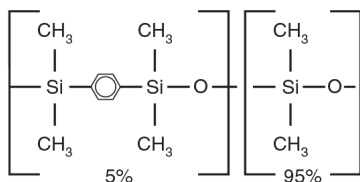
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0.15 mm	0.15 µm	20 m	to 340/340 °C		ea.	46616
0.18 mm	0.18 µm	20 m	to 340/340 °C		ea.	46602
	0.36 µm	20 m	to 330/340 °C		ea.	46604
0.25 mm	0.25 µm	15 m	to 340/340 °C		ea.	16620
	0.25 µm	30 m	to 340/340 °C		ea.	16623
	0.50 µm	30 m	to 330/340 °C		ea.	16638
0.32 mm	0.25 µm	30 m	to 340/340 °C		ea.	16624
	0.50 µm	30 m	to 330/340 °C		ea.	16639
	0.25 µm	15 m	to 340/340 °C	w/10 m, 0.25 mm ID Rxi guard column pre-connected w/SilTite µ-Union connector	ea.	16620-375
0.25 mm	0.25 µm	30 m	to 340/340 °C	w/5 m, 0.25 mm ID Rxi guard column pre-connected w/SilTite µ-Union connector	ea.	16623-371
	0.50 µm	30 m	to 330/340 °C	w/5 m, 0.25 mm ID Rxi guard column pre-connected w/SilTite µ-Union connector	ea.	16638-371



ordering notes

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Need a guard column that is not shown here? We recommend Rxi guard columns and SilTite µ-Union connectors. You can connect a guard yourself or contact Customer Service to place a custom order for a factory-connected guard.



Similar to: (5%-phenyl)-methylpolysiloxane

Restek's low-bleed MS columns exceed requirements of the most sensitive mass spectrometers.

ordering notes

Custom lengths and film thicknesses available. Contact Customer Service or your local Restek representative.

SAVE MONEY! Get six columns for the price of five. Contact Customer Service or your local Restek representative for details!

Rxi-5Sil MS Columns (fused silica)

low-polarity phase; Crossbond 1,4-bis(dimethylsiloxy)phenylene dimethyl polysiloxane

- General-purpose columns for GC-MS analysis of most semivolatiles, polycyclic aromatic compounds, chlorinated hydrocarbons, phthalates, phenols, amines, organochlorine pesticides, organophosphorus pesticides, drugs, solvent impurities, and hydrocarbons.
- Engineered to be a low-bleed GC-MS column.
- Excellent inertness for active compounds.
- Temperature range: -60 °C to 350 °C.

- Some dimensions also available as Integra-Guard columns — a guard and analytical column in one to eliminate connection problems!

The Rxi-5Sil MS stationary phase incorporates phenyl groups in the polymer backbone. This improves thermal stability, reduces bleed, and makes the phase less prone to oxidation. Rxi-5Sil MS columns are ideal for GC-MS applications.

ID	df	Length	Temp. Limits	qty.	cat.#
Rxi-5Sil MS					
0.10 mm	0.10 µm	10 m	-60 to 320/350 °C	ea.	43601
	0.15 µm	10 m	-60 to 320/350 °C	ea.	43815
0.15 mm	0.15 µm	20 m	-60 to 320/350 °C	ea.	43816
	2.0 µm	20 m	-60 to 320/350 °C	ea.	43817
0.18 mm	0.10 µm	60 m	-60 to 320/350 °C	ea.	43607
	0.18 µm	20 m	-60 to 320/350 °C	ea.	43602
	0.18 µm	40 m	-60 to 320/350 °C	ea.	43605
	0.36 µm	20 m	-60 to 320/350 °C	ea.	43604
	0.10 µm	15 m	-60 to 320/350 °C	ea.	13605
0.25 mm	0.10 µm	30 m	-60 to 320/350 °C	ea.	13608
	0.25 µm	15 m	-60 to 320/350 °C	ea.	13620
	0.25 µm	30 m	-60 to 320/350 °C	ea.	13623
	0.25 µm	30 m	-60 to 320/350 °C	6-pk.	13623-600
	0.25 µm	60 m	-60 to 320/350 °C	ea.	13626
	0.50 µm	15 m	-60 to 320/350 °C	ea.	13635
	0.50 µm	30 m	-60 to 320/350 °C	ea.	13638
	1.00 µm	15 m	-60 to 320/350 °C	ea.	13650
	1.00 µm	30 m	-60 to 320/350 °C	ea.	13653
	1.00 µm	60 m	-60 to 320/350 °C	ea.	13697
0.32 mm	0.25 µm	15 m	-60 to 320/350 °C	ea.	13621
	0.25 µm	30 m	-60 to 320/350 °C	ea.	13624
	0.50 µm	30 m	-60 to 320/350 °C	ea.	13639
	1.00 µm	30 m	-60 to 320/350 °C	ea.	13654
0.53 mm	1.50 µm	30 m	-60 to 320/330 °C	ea.	13670

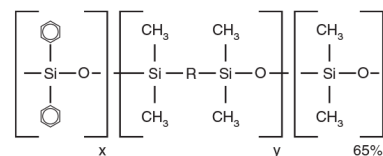
Rxi-35Sil MS Columns (fused silica)

midpolarity Crossbond phase

- Special selectivity and excellent inertness for substituted polar compounds, such as drugs, pesticides, herbicides, PCBs, phenols, etc.
- Provides superior separation for cannabinoids.
- Very low-bleed phase for GC-MS analysis.
- Extended temperature range: 50 °C up to 360 °C.

The higher aromatic content of the Rxi-35Sil MS column allows for superior separation of cannabinoids over traditional 5-type columns. Baseline separation can be achieved for a comprehensive list of cannabinoids by using a cost-effective 15 m column and readily available hydrogen carrier gas. The arylene content of the Rxi-35Sil MS stationary phase ensures long column lifetime at the high elution temperatures required for cannabinoids analysis.

ID	df	Length	Temp. Limits	qty.	cat.#
Rxi-35Sil MS					
0.25 mm	0.25 µm	15 m	50 to 340/360 °C	ea.	13820
	0.25 µm	30 m	50 to 340/360 °C	ea.	13823
	0.50 µm	15 m	50 to 340/360 °C	ea.	13835
	0.50 µm	30 m	50 to 340/360 °C	ea.	13838
	1.00 µm	30 m	50 to 340/340 °C	ea.	13853
0.32 mm	0.25 µm	15 m	50 to 340/360 °C	ea.	13821
	0.25 µm	30 m	50 to 340/360 °C	ea.	13824
	0.50 µm	15 m	50 to 340/360 °C	ea.	13836
	0.50 µm	30 m	50 to 340/360 °C	ea.	13839
	1.00 µm	30 m	50 to 340/340 °C	ea.	13854
0.53 mm	0.50 µm	15 m	50 to 340/360 °C	ea.	13837
	0.50 µm	30 m	50 to 340/340 °C	ea.	13840
	1.00 µm	30 m	50 to 325/340 °C	ea.	13855
	3.00 µm	30 m	50 to 280/300 °C	ea.	13859



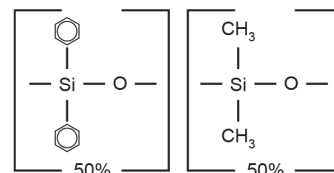
Similar to: (35%-phenyl)-methylpolysiloxane

Rxi-17 Columns (fused silica)

midpolarity phase; Crossbond diphenyl dimethyl polysiloxane

- General-purpose columns for pesticides, herbicides, PAHs, rosin acids, phthalate esters.
- Temperature range: 40 °C to 320 °C.
- Equivalent to USP G3 phase.

ID	df	Length	Temp. Limits	qty.	cat.#
Rxi-17					
0.10 mm	0.10 µm	1.1 m (±3 cm)	40 to 320/320 °C	ea.	15104
	0.10 µm	10 m	40 to 280/320 °C	ea.	13501
0.18 mm	0.18 µm	20 m	40 to 280/320 °C	ea.	13502
	0.25 µm	15 m	40 to 280/320 °C	ea.	13520
0.25 mm	0.25 µm	30 m	40 to 280/320 °C	ea.	13523
	0.50 µm	30 m	40 to 280/320 °C	ea.	13538
	1.00 µm	30 m	40 to 280/320 °C	ea.	13553
0.32 mm	0.25 µm	30 m	40 to 280/320 °C	ea.	13524
	0.50 µm	30 m	40 to 280/320 °C	ea.	13539
	1.00 µm	30 m	40 to 280/320 °C	ea.	13554
0.53 mm	0.25 µm	30 m	40 to 280/320 °C	ea.	13525
	0.50 µm	30 m	40 to 280/320 °C	ea.	13540
	1.00 µm	15 m	40 to 280/320 °C	ea.	13552
	1.00 µm	30 m	40 to 280/320 °C	ea.	13555
	1.50 µm	30 m	40 to 280/320 °C	ea.	13570

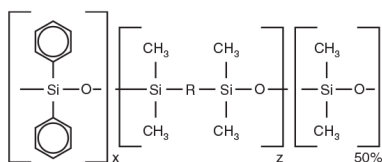


Similar to: (50%-phenyl)-methylpolysiloxane

ordering notes

Custom lengths and film thicknesses available. Contact Customer Service or your local Restek representative.

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Similar to: (50%-phenyl)-methylpolysiloxane

ordering notes

Custom lengths and film thicknesses available. Contact Customer Service or your local Restek representative.

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Rxi-17Sil MS Columns (fused silica)

midpolarity Crossbond phase

- Excellent inertness and selectivity for active environmental compounds, such as PAHs.
- Low bleed for use with sensitive detectors, such as MS.
- 340/360 °C upper temperature limits.
- Equivalent to USP phase G3.

ID	df	Length	Temp. Limits	qty.	cat.#
Rxi-17Sil MS					
0.10 mm	0.10 µm	10 m	40 to 340/360 °C	ea.	14101
0.15 mm	0.15 µm	10 m	40 to 340/360 °C	ea.	43820
	0.15 µm	20 m	40 to 340/360 °C	ea.	43821
0.18 mm	0.18 µm	20 m	40 to 340/360 °C	ea.	14102
	0.36 µm	20 m	40 to 340/360 °C	ea.	14111
0.25 mm	0.25 µm	15 m	40 to 340/360 °C	ea.	14120
	0.25 µm	30 m	40 to 340/360 °C	ea.	14123
	0.25 µm	60 m	40 to 340/360 °C	ea.	14126
0.32 mm	0.25 µm	15 m	40 to 340/360 °C	ea.	14121
	0.25 µm	30 m	40 to 340/360 °C	ea.	14124

RESTEK

Be Certain with Restek Reference Standards

Precision data can only be delivered by high-purity, rigorously controlled reference standards. With decades of chemical expertise, Restek standards ensure accuracy and reliability.

- Fully characterized starting materials blended for maximum stability and convenience.
- Professionally formulated mixes reduce time, expense, and uncertainty compared to in-house preparation.
- Single and multicomponent standards covering a wide range of compounds and classes.



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Rxi-PAH Columns (fused silica)

midpolarity proprietary phase

- Ideal for EFSA PAH4 analysis—separates all priority compounds: benz[a]anthracene, chrysene, benzo[b]fluoranthene, and benzo[a]pyrene.
- Best resolution of chrysene from interfering PAHs, triphenylene, and cyclopenta[cd]pyrene.
- Complete separation of benzo [b], [k], [j], and [a] fluoranthenes.
- 40 °C to 360 °C thermal stability allows analysis of low-volatility dibenzo pyrenes.

The Rxi-PAH GC columns were designed by Restek with a higher phenyl content stationary phase that provides unique selectivity to separate important polycyclic aromatic hydrocarbons (PAH) for food safety that cannot be distinguished by mass spectrometry. Even difficult priority compounds, such as the European Food Safety Authority (EFSA) PAH4, are easily separated and accurately quantified—results that cannot be achieved on typical GC columns. Arylene modification and surface bonding of the stationary phase increase thermal stability and ruggedness so relatively nonvolatile, higher molecular weight PAHs can be analyzed routinely without interference from column bleed. Excellent column efficiency means that the column can be trimmed for maintenance purposes many times without losing critical PAH separations, including those that are part of food safety testing. The selectivity and efficiency of the Rxi-PAH column make it ideal for EFSA PAH4 analysis; chrysene/triphenylene separation and resolution of all benzofluoranthenes are easily achieved.

cat.#: Descriptions

49316: Narrow inside diameter, thinner film, faster analysis, excellent separation of important PAHs, less sample loading capacity.
49317: 0.25 mm inner diameter, better sample loading capacity, highest resolution of important PAHs, longer analysis than 0.18 mm column, thin film allows elution of dibenzo pyrenes.
49318: 0.25 mm inside diameter, better sample loading capacity, faster analysis time than 60 m column, adequate resolution of important PAHs, lower cost column.

ID	df	Length	Temp. Limits	qty.	cat.#
0.18 mm	0.07 µm	40 m	40 to 350/360 °C	ea.	49316
0.25 mm	0.10 µm	30 m	40 to 350/360 °C	ea.	49318
	0.10 µm	60 m	40 to 350/360 °C	ea.	49317

Rxi-624Sil MS Columns (fused silica)

midpolarity Crossbond phase

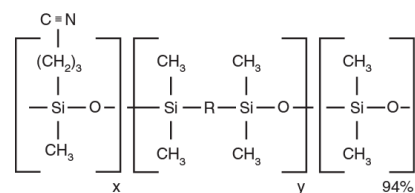
- Low-bleed, high-thermal stability column—maximum temperatures up to 300–320 °C.
- Inert—excellent peak shape for a wide range of compounds.
- Selective—G43 phase highly selective for volatile organics, terpenes, and residual solvents, great choice for USP<467>.
- Manufactured for column-to-column reproducibility—well suited for validated methods.

ID	df	Length	Temp. Limits	qty.	cat.#
0.18 mm	1.00 µm	20 m	-20 to 300/320 °C	ea.	13865
	1.40 µm	30 m	-20 to 300/320 °C	ea.	13868
0.25 mm	1.40 µm	60 m	-20 to 300/320 °C	ea.	13869
	1.80 µm	30 m	-20 to 300/320 °C	ea.	13870
0.32 mm	1.80 µm	60 m	-20 to 300/320 °C	ea.	13872
	3.00 µm	30 m	-20 to 280/300 °C	ea.	13871
0.53 mm	3.00 µm	60 m	-60 to 280/300 °C	ea.	13873
	3.00 µm	75 m	-60 to 280/300 °C	ea.	13874
	3.00 µm	105 m	-60 to 280/300 °C	ea.	13875

also available

PAH Certified Reference Materials (CRMs)

www.restek.com/crm



Similar to: (6%-cyanopropylphenyl)-methylpolysiloxane

ordering notes

Custom lengths and film thicknesses available. Contact Customer Service or your local Restek representative.

SAVE MONEY! Get six columns for the price of five. Contact Customer Service or your local Restek representative for details!



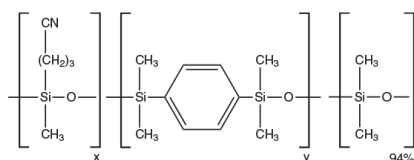
Rxi-LAO Columns (fused silica)

midpolarity Crossbond phase

- Specifically applicated for linear alpha olefin (LAO) impurity analysis.
- Unique selectivity enables high resolution of impurities from peaks of interest.
- One-column method reduces instrument setup and analysis time.
- Consistent column-to-column performance.
- Engineered to be a low-bleed column.
- Fully supported by our Pro EZGC chromatogram modeler, helping labs to simplify analysis optimization.

Specifically applicated for linear alpha olefins (LAO) impurity analysis, Rxi-LAO columns provide accurate analysis of LAO compounds including 1-butene, 1-hexene, and 1-octene. Combining a stationary phase with a unique selectivity and an optimal, one-column method, these new columns help improve your LAO analysis by increasing system uptime and sample throughput.

ID	df	Length	Temp. Limits	qty.	cat.#
Rxi-LAO					
0.25 mm	1.4 µm	60 m	-20 to 300/320 °C	ea.	13876
0.18 mm	1.0 µm	40 m	-20 to 300/320 °C	ea.	40815



Rxi-1301Sil MS Columns (fused silica)

midpolarity Crossbond phase

- Highest thermal stability in the industry ensures dependable, accurate MS results and increased uptime.
- Stabilized cyano phase selectivity improves the performance of existing methods. Ideal for terpenes, glycol ethers, fusel alcohols, and other polar compounds.
- Rigorous QC testing ensures inertness and accurate, reliable data for multiple compound classes.
- Temperature Range: -60 °C to 320 °C.

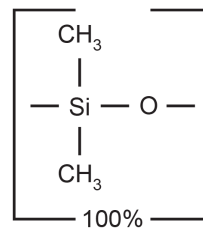
ID	df	Length	Temp. Limits	qty.	cat.#
Rxi-1301Sil MS					
0.25 mm	0.25 µm	30 m	-60 to 320 °C	ea.	16094
	0.25 µm	60 m	-60 to 320 °C	ea.	16096
	1.00 µm	30 m	-60 to 320 °C	ea.	16095
	1.00 µm	60 m	-60 to 320 °C	ea.	16097
0.32 mm	0.25 µm	30 m	-60 to 320 °C	ea.	16098
	1.00 µm	30 m	-60 to 320 °C	ea.	16099
	1.00 µm	60 m	-60 to 320 °C	ea.	16100
	1.50 µm	30 m	-60 to 320 °C	ea.	16104
	1.50 µm	60 m	-60 to 320 °C	ea.	16105
0.53 mm	1.00 µm	15 m	-60 to 320 °C	ea.	16101
	1.00 µm	30 m	-60 to 320 °C	ea.	16102
	3.00 µm	30 m	-60 to 280/300 °C	ea.	16106
	3.00 µm	60 m	-60 to 280/300 °C	ea.	16107

Rxi-1HT Columns (fused silica)

nonpolar phase; dimethyl polysiloxane

- Ideal for high-temperature applications, such as high molecular weight hydrocarbons.
- Temperature range: -60 to 400 °C.
- Equivalent to USP G1 and G2 phases.

ID	df	Length	Temp. Limits	qty.	cat.#
Rxi-1HT					
0.25 mm	0.10 µm	15 m	-60 to 400 °C	ea.	13950
	0.10 µm	30 m	-60 to 400 °C	ea.	13951
	0.25 µm	30 m	-60 to 400 °C	ea.	13952
0.32 mm	0.10 µm	15 m	-60 to 400 °C	ea.	13953
	0.10 µm	30 m	-60 to 400 °C	ea.	13954
	0.25 µm	30 m	-60 to 400 °C	ea.	13955



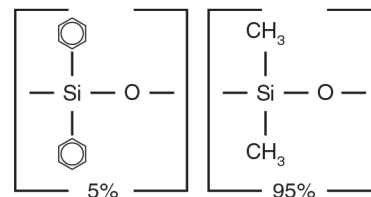
Similar to: (100%-methyl)-polysiloxane

Rxi-5HT Columns (fused silica)

low-polarity phase; diphenyl dimethyl polysiloxane

- Columns designed for high-temperature applications, such as mineral oil.
- Temperature range: -60 to 400 °C.

ID	df	Length	Temp. Limits	qty.	cat.#
Rxi-5HT					
0.25 mm	0.10 µm	15 m	-60 to 400 °C	ea.	13905
	0.10 µm	30 m	-60 to 400 °C	ea.	13908
	0.25 µm	15 m	-60 to 400 °C	ea.	13911
	0.25 µm	30 m	-60 to 400 °C	ea.	13923
0.32 mm	0.10 µm	15 m	-60 to 400 °C	ea.	13906
	0.10 µm	30 m	-60 to 400 °C	ea.	13909
	0.25 µm	30 m	-60 to 400 °C	ea.	13924
0.53 mm	0.15 µm	30 m	-60 to 380/400 °C	ea.	13910



Similar to: (5%-phenyl)-methylpolysiloxane

ordering notes

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Restek GCxGC Columns: Your One Source for 2D Gas Chromatography

Why Use GCxGC?

GCxGC is a powerful multidimensional GC technique that combines two independent separations to accurately analyze highly complex samples. GCxGC involves two columns with differing stationary phase selectivity (orthogonal) that are connected together in series and separated by a modulator. The first (primary) column performs an initial separation, and its effluent is continually focused and “injected” in defined cycles by the modulator onto the second (secondary) column where another separation occurs. By choosing a secondary column that is orthogonal (has different selectivity) to the primary column, it is possible to separate and identify analytes that cannot be separated by the primary column. And, by keeping the secondary column very short, it is possible to maintain the separation produced by the primary column. Results generated through a series of high-speed chromatograms are plotted as a contour plot, sometimes known as a retention plane.

So, why use GCxGC? Because comprehensive two-dimensional gas chromatography allows you to perform separations that are simply not possible using standard one-dimensional chromatography!

Why Use Restek GCxGC Columns?

- Wide range of stationary phases offers orthogonal separations.
- High thermal stability increases system ruggedness.
- Unrivalled column inertness for accurate analysis of active compounds.
- 0.15, 0.18, and 0.25 mm ID formats accommodate varying sample capacities, speeds, and detectors.
- Secondary columns come in convenient 2 m lengths for economical methods development.

Restek's GCxGC secondary columns can be matched with any Restek Rtx or Rxi primary column to create the perfect orthogonal separation for your application. See our combination guide below for help choosing your GCxGC columns. We also offer a range of complementary GC accessories—including inlet liners, the Restek electronic leak detector, and Press-Tight connectors—to boost your success with GCxGC.

Restek GCxGC Column Combination Guide

To achieve ideal results in a GCxGC analysis, it is imperative that your primary and secondary columns feature orthogonal phases capable of producing differing separations. Use the chart below to find the perfect combination of Restek columns to maximize the effectiveness of your GCxGC system.

Application Area	Primary Column		Secondary Column	
	Phase	Selectivity	Phase	Selectivity
Petrochemical	Rxi-1ms	Nonpolar	Rxi-17Sil MS	Midpolar, aromatic selective
Petrochemical	Rxi-5Sil MS	Nonpolar	Rxi-17Sil MS	Midpolar, aromatic selective
PAHs, environmental	Rxi-17Sil MS	Midpolar, aromatic selective	Rxi-1ms	Nonpolar
PAHs, environmental	Rxi-17Sil MS	Midpolar, aromatic selective	Rxi-5Sil MS	Nonpolar
PCBs, PBDEs, PAHs, environmental	Rxi-XLB	Nonpolar	Rxi-17Sil MS	Midpolar, aromatic selective
Mono-ortho, coplanar PCBs	Rxi-1ms	Nonpolar	Rxi-XLB	Planar selective
Mono-ortho, coplanar PCBs	Rxi-5Sil MS	Nonpolar	Rxi-XLB	Planar selective
Pesticides, nitroaromatics, halogenated compounds	Rxi-1ms	Nonpolar	Rtx-200	Midpolar, electronegative selectivity
Pesticides, nitroaromatics, halogenated compounds	Rxi-5Sil MS	Nonpolar	Rtx-200	Midpolar, electronegative selectivity
Pesticides, nitroaromatics, halogenated compounds	Rxi-XLB	Nonpolar	Rtx-200	Midpolar, electronegative selectivity
Flavors, fragrances	Rxi-1ms	Nonpolar	Stabilwax	Polar
Flavors, fragrances	Rxi-5Sil MS	Nonpolar	Stabilwax	Polar
Flavors, fragrances	Stabilwax	Polar	Rxi-1ms	Nonpolar
Flavors, fragrances	Stabilwax	Polar	Rxi-5Sil MS	Nonpolar

Primary GCxGC Columns (In order of increasing polarity)

ID	df	Length	temp. limits	qty.	cat.#
Rxi-1ms					
0.25 mm	0.25 µm	30 m	-60 to 330/350 °C	ea.	13323
Rxi-5Sil MS					
0.25 mm	0.25 µm	30 m	-60 to 320/350 °C	ea.	13623
Rxi-XLB					
0.25 mm	0.25 µm	30 m	30 to 340/360 °C	ea.	13723
Rxi-17Sil MS					
0.25 mm	0.25 µm	30 m	40 to 340/360 °C	ea.	14123
Rtx-200					
0.25 mm	0.25 µm	30 m	-20 to 320/340 °C	ea.	15023
Stabilwax					
0.25 mm	0.25 µm	30 m	40 to 250/260 °C	ea.	10623

Secondary GCxGC Columns (In order of increasing polarity)

ID	df	Length	temp. limits	qty.	cat.#
Rxi-1ms					
0.15 mm	0.15 µm	2 m	-60 to 330/350 °C	ea.	15114
0.18 mm	0.18 µm	2 m	-60 to 330/350 °C	ea.	15120
0.25 mm	0.25 µm	2 m	-60 to 330/350 °C	ea.	15127
Rxi-5Sil MS					
0.15 mm	0.15 µm	2 m	-60 to 330/350 °C	ea.	15113
0.18 mm	0.18 µm	2 m	-60 to 330/350 °C	ea.	15119
0.25 mm	0.25 µm	2 m	-60 to 330/350 °C	ea.	15126
Rxi-XLB					
0.15 mm	0.15 µm	2 m	30 to 340/360 °C	ea.	15115
0.18 mm	0.18 µm	2 m	30 to 340/360 °C	ea.	15121
0.25 mm	0.25 µm	2 m	30 to 340/360 °C	ea.	15128
Rxi-17Sil MS					
0.15 mm	0.15 µm	2 m	40 to 340/360 °C	ea.	15110
0.18 mm	0.18 µm	2 m	40 to 340/360 °C	ea.	15116
0.25 mm	0.25 µm	2 m	40 to 340/360 °C	ea.	15123
Rtx-200					
0.15 mm	0.15 µm	2 m	-20 to 320/340 °C	ea.	15111
0.18 mm	0.18 µm	2 m	-20 to 320/340 °C	ea.	15117
0.25 mm	0.25 µm	2 m	-20 to 320/340 °C	ea.	15124
Stabilwax					
0.15 mm	0.15 µm	2 m	40 to 250/260 °C	ea.	15112
0.18 mm	0.18 µm	2 m	40 to 250/260 °C	ea.	15118
0.25 mm	0.25 µm	2 m	40 to 250/260 °C	ea.	15125

GCxGC Secondary Column Selectivity Kits

- Wide range of stationary phases offers orthogonal separations.
- High thermal stability increases system ruggedness.
- Unrivaled column inertness for accurate analysis of active compounds.
- 0.15, 0.18, or 0.25 mm ID formats accommodate varying sample capacities, speeds, and detectors.
- Secondary columns come in convenient 2 m lengths for economical methods development.

ID	Includes	qty.	cat.#
GCxGC (0.15 mm) Selectivity Kit			
	Rxi-1ms Column (cat.# 15114); Rxi-5Sil MS Column (cat.# 15113); Rxi-XLB Column (cat.# 15115); Rxi-17Sil MS Column (cat.# 15110); Rtx-200 Column (cat.# 15111); Stabilwax Column (cat.# 15112); and a 5-pk. of Deactivated Universal Press-Tight Connectors (cat.# 20429)	kit	15129
GCxGC (0.18 mm) Selectivity Kit			
	Rxi-1ms Column (cat.# 15120); Rxi-5Sil MS Column (cat.# 15119); Rxi-XLB Column (cat.# 15121); Rxi-17Sil MS Column (cat.# 15116); Rtx-200 Column (cat.# 15117); Stabilwax Column (cat.# 15118); and a 5-pk. of Deactivated Universal Press-Tight Connectors (cat.# 20429)	kit	15130
GCxGC (0.25 mm) Selectivity Kit			
	Rxi-1ms Column (cat.# 15127); Rxi-5Sil MS Column (cat.# 15126); Rxi-XLB Column (cat.# 15128); Rxi-17Sil MS Column (cat.# 15123); Rtx-200 Column (cat.# 15124); Stabilwax Column (cat.# 15125); and a 5-pk. of Deactivated Universal Press-Tight Connectors (cat.# 20429)	kit	15131

Accelerate Your GC Analyses while Maintaining Separations

With Restek's EZGC method translator and a GC Accelerator kit, you can make quick work of accurately converting your methods to scaled-down Rxi GC columns and shorter runtimes.

Learn more at www.restek.com/GCaccelerator





tech tip

Use a 20 m fast GC column in place of a standard 30 m column; a 10 m in place of a 15 m; and a 40 m in place of a 60 m.

also available

Rtx and Stabilwax columns for fast GC

How to Get the Same Chromatogram With a Fast GC Column

For decades, 0.15 mm ID columns have been proven to work in virtually any application field. When switching to a smaller-ID and shorter-length column, there are several things you must do in order for your new, faster method to give you the same chromatogram (i.e., separations) as your old method:

1. Choose a column with the same phase ratio.
2. Adapt the temperature program so that the analyte elution temperatures are the same.
3. Adjust the linear velocity. (For a good starting point, see your column's certificate of analysis.)

Following these guidelines will help ensure that you achieve similar chromatography (i.e., identical elution order and resolution)—in a fraction of the time.

Shorten Analysis Time and Boost Productivity with Restek Fast GC Columns

The math is simple: the less time it takes to perform each analysis, the more samples your laboratory can process. The easiest way to reduce analysis time while still maintaining resolution of critical compounds is to use hydrogen as your carrier gas. If hydrogen is not an option, or if you already use it and want to reduce analysis time even more, turn to the higher resolving power of smaller-bore capillary columns from Restek.

As column ID decreases, column efficiency (i.e., plates/meter) increases, allowing you to achieve the same, or even better, resolution using a shorter length—and significantly less time. Whether you are currently using 0.25 or 0.53 mm ID columns, you can shorten analysis times as much as twofold by switching to Restek 0.15 mm ID fast GC columns. These high-efficiency columns speed up separations on your existing GC or GC-MS instrumentation—while maintaining resolution and meeting method criteria—so you can make more runs per shift with the same exceptional accuracy you've come to expect from Restek.

Fast GC 0.15 mm ID Columns

- Increase productivity up to 2x without sacrificing resolution.
- Often compatible with your existing GC setup (please refer to your instrument manual).
- Low bleed for maximum sensitivity and accurate GC-MS analyses.
- Thick films (up to 2 μm) eliminate loadability issues.
- OD similar to 0.25 mm columns for easy installation.
- Excellent as secondary columns for GCxGC.
- Available in a variety of stationary phases.

Rxi-1ms Columns for Fast GC (fused silica)

nonpolar phase; Crossbond dimethyl polysiloxane

ID	df	Length	temp. limits	qty.	cat.#
0.15 mm	0.15 μm	10 m	-60 to 330/350 °C	ea.	43800
	0.15 μm	20 m	-60 to 330/350 °C	ea.	43801
	2.0 μm	20 m	-60 to 330/350 °C	ea.	43802

Rxi-5Sil MS Columns for Fast GC (fused silica)

low-polarity phase; Crossbond 1,4-bis(dimethylsiloxy)phenylene dimethyl polysiloxane

ID	df	Length	temp. limits	qty.	cat.#
0.15 mm	0.15 μm	10 m	-60 to 320/350 °C	ea.	43815
	0.15 μm	20 m	-60 to 320/350 °C	ea.	43816
	2.0 μm	20 m	-60 to 320/350 °C	ea.	43817

Rxi-17Sil MS Columns for Fast GC (fused silica)

midpolarity Crossbond phase

ID	df	Length	temp. limits	qty.	cat.#
0.15 mm	0.15 μm	10 m	40 to 340/360 °C	ea.	43820
	0.15 μm	20 m	40 to 340/360 °C	ea.	43821

Chromatogram Search Tool

Search by compound name, synonym, CAS #, or keyword

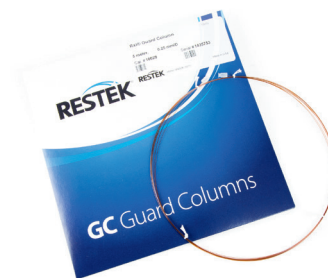
www.restek.com/chromatograms



Rxi Guard/Retention Gap Columns/Transfer Line (fused silica)

- Useful for a wide range of applications and compatible with most common solvents.
- Extend column lifetime.
- Excellent inertness—obtain lower detection limits for active compounds.
- Sharper chromatographic peaks by utilizing retention gap technology.
- Maximum temperature: 360 °C.

ID	Length	OD	qty.	cat.#
0.25 mm	5 m	0.37 ± 0.04 mm	ea.	10029
	5 m	0.37 ± 0.04 mm	6-pk.	10029-600
	10 m	0.37 ± 0.04 mm	ea.	10059
0.32 mm	10 m	0.37 ± 0.04 mm	6-pk.	10059-600
	5 m	0.45 ± 0.04 mm	ea.	10039
	5 m	0.45 ± 0.04 mm	6-pk.	10039-600
	10 m	0.45 ± 0.04 mm	ea.	10064
0.53 mm	10 m	0.45 ± 0.04 mm	6-pk.	10064-600
	5 m	0.69 ± 0.05 mm	ea.	10054
	5 m	0.69 ± 0.05 mm	6-pk.	10054-600
	10 m	0.69 ± 0.05 mm	ea.	10073
	10 m	0.69 ± 0.05 mm	6-pk.	10073-600



ordering notes

Certificates of analysis for new 5 m and 10 m Restek guard columns are now provided electronically. To view and download your 5 m or 10 m guard column certificate, simply visit www.restek.com/documentation then enter your catalog # and serial #.

Innovative Integra-Guard Columns

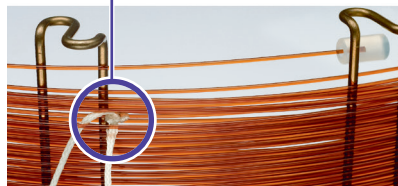
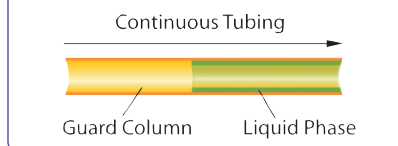
Get the protection without the connection!

- These innovative columns incorporate both guard column and analytical column in a continuous length of tubing, eliminating the connection and all connection-associated problems!
- The guard column section is marked separately from the analytical column, using high-temperature string.
- A wide variety of our Integra-Guard capillary columns are available.
- No leaks for a more robust method.
- No column connections for easier, faster maintenance.
- No peak distortions due to connector dead volume and thermal capacity.

ID	df	Length	Temp. Limits	Modification	cat.#/ea.
Rxi-5Sil MS					
0.25 mm	0.25 µm	15 m	-60 to 330/350 °C	w/10 m Integra-Guard Column	13620-127
	0.25 µm	30 m	-60 to 320/350 °C	w/5 m Integra-Guard Column	13623-124
	0.25 µm	30 m	-60 to 320/350 °C	w/10 m Integra-Guard Column	13623-127
	0.25 µm	60 m	-60 to 320/350 °C	w/5 m Integra-Guard Column	13626-124
	0.25 µm	60 m	-60 to 320/350 °C	w/10 m Integra-Guard Column	13626-127
	0.50 µm	15 m	-60 to 320/350 °C	w/5 m Integra-Guard Column	13635-124
	0.50 µm	30 m	-60 to 320/350 °C	w/5 m Integra-Guard Column	13638-124
	0.50 µm	30 m	-60 to 320/350 °C	w/10 m Integra-Guard Column	13638-127
	1.00 µm	30 m	-60 to 320/350 °C	w/5 m Integra-Guard Column	13653-124
	0.50 µm	30 m	-60 to 320/350 °C	w/5 m Integra-Guard Column	13639-125
0.32 mm	1.00 µm	30 m	-60 to 320/350 °C	w/5 m Integra-Guard Column	13654-125

If you don't see what you need here, contact Customer Service.

Integra-Guard Built-In Guard Column



String indicates where the analytical column begins.



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