

MXT[®]-1HT SimDist Columns

Cat.# 70112 Columns are Individually Application Tested up to 430 °C for Guaranteed Method Performance!

Accurate determination of the boiling range distribution of medium and heavy fractions using GC simulated distillation provides critical information regarding the composition of crude oil, feed stocks, and other products related to refinery processes. ASTM Methods D6352-12, D7169-11, D7500-12 are often used to characterize petroleum distillates in the boiling range of 174 °C to 735 °C, but these analyses present many challenges to refineries and contract laboratories. Both the column construction and the polydimethylsiloxane (PDMS) polymer must be robust enough to withstand the high method temperatures without significant degradation. In addition, columns must yield a C50/C52 resolution value between 2 and 4, exhibit acceptable peak symmetry, and reliably produce accurate boiling point data.

While other columns on the market are isothermally tested for performance, only Restek provides application-specific testing for all 5 m x 0.53 mm x 0.10 µm MXT[®]-1HT SimDist columns (cat.# 70112). Since each one is tested up to 430 °C, performance is guaranteed to meet ASTM Method D6352-12, D7169-11, and D7500-12 requirements. The 1HT PDMS phase is designed to achieve bleed of less than 15 pA at 430 °C and has a maximum operating temperature of 450 °C. In addition, the rugged Siltek[®]-treated MXT[®] tubing eliminates breakage while ensuring column inertness. Unlike competitor columns, each and every 5 m x 0.53 mm x 0.10 µm column is tested against ASTM method D6352-12 requirements up to 430 °C with Polywax[®] 655 (C18 – C90 hydrocarbons). QC acceptance criteria include C50/C52 resolution, bleed, and C50 asymmetry (skew). Each cat.# 70112 column you purchase will arrive with a chromatogram like the one below, your assurance that the column will perform as required. Increase lab productivity and confidence in your data with this application-tested MXT[®]-1HT SimDist column from Restek!

RESTEK[®] REFINED

Solutions for Your Petro Analyses

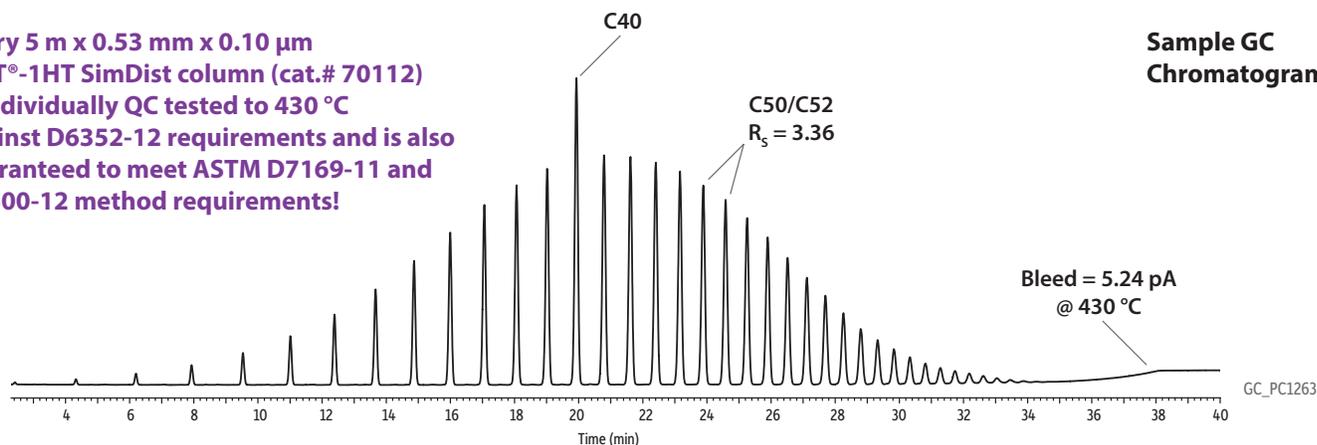
- Improved, best-in-class columns
- Standards to support ASTM methods
- Industry experts at your service



www.restek.com/petro

Every 5 m x 0.53 mm x 0.10 µm MXT[®]-1HT SimDist column (cat.# 70112) is individually QC tested to 430 °C against D6352-12 requirements and is also guaranteed to meet ASTM D7169-11 and D7500-12 method requirements!

Sample GC Chromatogram



Column: MXT-1HT SimDist, 5 m, 0.53 mm ID, 0.10 µm (cat.# 70112); Sample: Polywax[®] 655; Oven: Oven Temp.: 50 °C to 430 °C at 10 °C/min (hold 5 min); Carrier Gas: He, constant flow, 18 mL/min.; Detector: FID @ 430 °C; Make-up Gas Flow Rate: 24 mL/min; Make-up Gas Type: N₂; Hydrogen flow: 40 mL/min; Air flow: 358 mL/min; Instrument: Agilent/HP6890 GC

Visit www.restek.com for a complete product listing



Innovative Chromatography Products

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Order now! MXT®-1HT SimDist Column

(Siltek®-treated stainless steel) (nonpolar phases)

- Stable up to 450 °C—lowest bleed for longest column lifetime.
- Reliably meet all ASTM D6352, D7169, and D7500 specifications.
- 100% dimethyl polysiloxane phase allows easy comparisons to historical data.

Description	temp. limits	qty.	cat.#
5 m, 0.53 mm ID, 0.10 µm	-60 to 430/450 °C	ea.	70112

Restek Electronic Leak Detector

Description	qty.	cat.#
Leak Detector With Hard-Sided Carrying Case and Universal Charger Set (U.S., UK, European, Australian)	ea.	22655
Small Probe Adaptor for Leak Detector	ea.	22658
Dynamic Duo Combo Pack (Restek Leak Detector and ProFLOW 6000 Flowmeter)	kit	22654
Soft-Sided Storage Case for Leak Detector or ProFLOW 6000 Flowmeter	ea.	22657

Avoid using liquid leak detectors on a GC! Liquids can be drawn into the system and/or into the leak detector.

*Caution: The Restek electronic leak detector is designed to detect trace amounts of hydrogen in a noncombustible environment. It is NOT designed for determining leaks in a combustible environment. A combustible gas detector should be used for determining combustible gas leaks under any condition. When using it to detect hydrogen, the Restek electronic leak detector may only be used for determining trace amounts in a GC environment.



FID Collector Assembly Kit

for Agilent 6890/6850/7890 GCs

- Constructed of high-quality stainless steel.
- Meets or exceeds original manufacturer's performance.
- Individual replacement parts available.

Description	Similar to		qty.	cat.#
	Agilent part #	Agilent part #		
FID Collector Assembly Kit (includes insulator)	G1531-60690		kit	21699
FID Collector Assembly Kit w/Siltek Ignitor Castle			kit	21132

*Also fits OI Analytical 4410 detector (similar to OI part # 191833).

SAVE MONEY! Buy ferrules in bulk 50-packs!



Graphite Ferrules

- Preconditioned to eliminate out-gassing.
- High-purity, high-density graphite.
- Smoother surface and cleaner edges than conventional graphite ferrules.
- Contain no binders that can off-gas or adsorb analytes.
- Stable to 450 °C.

Compact Ferrules

for Agilent 5890/6890/6850/7890 GCs

Ferrule ID	Fits Column ID	qty.	Graphite
0.8 mm	0.45/0.53 mm	10-pk.	20252
0.8 mm	0.45/0.53 mm	50-pk.	20253

Capillary Ferrules

for 1/16-Inch Compression-Type Fittings

Ferrule ID	Fits Column ID	qty.	Graphite
0.8 mm	0.45/0.53 mm	10-pk.	20202
0.8 mm	0.45/0.53 mm	50-pk.	20224



Capillary Dedicated FID Replacement Jets

for Agilent 6890/6850/7890 GCs

- Threads specially coated for easy installation and removal.
- Special processing ensures the highest degree of cleanliness.
- Meets or exceeds original manufacturer's performance.

Description	Similar to		qty.	cat.#
	Agilent part #	Agilent part #		
High-Temperature, 0.018-Inch ID Tip	G1531-80620		ea.	23078
			3-pk.	23079

Contact your Restek representative and order yours today!

Visit www.restek.com/Contact-Us to find a distributor or representative.

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U.S. • 110 Benner Circle • Bellefonte, PA 16823 • 1-814-353-1300 • 1-800-356-1688 • fax: 1-814-353-1309 • www.restek.com

China • phone: +86-10-5629-6620 • fax: +86-10-5814-3980 • cn.restek.com

France • phone: +33 (0)1 60 78 32 10 • fax: +33 (0)1 60 78 70 90 • www.restek.fr

Germany • phone: +49 (0)6172 2797 0 • fax: +49 (0)6172 2797 77 • www.restekgmbh.de

Ireland • phone: +44 (0)2890 814576 • fax: +44 (0)2890 814576 • e-mail: restekireland@aol.com

Italy • phone: +39-02-7610037 • fax: +39-02-70100100 • www.superchrom.it

Japan • phone: +81 (3)6459 0025 • fax: +81 (3)6459 0025 • e-mail: restekjapan@restek.com

UK • phone: +44 (0)1494 563377 • fax: +44 (0)1494 564990 • www.thamesrestek.co.uk

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