

## Simulated Distillation (C44-C100) Analysis



similar **phases**

DB-1HT, CP-HT-Simdist CB

### Method Recommended Columns

ASTM Method	Hydrocarbon Range	cat. #	Configuration
D2887	C5 - C44	70131	5m x 0.53mm, 0.88 $\mu$ m
		70132	10m x 0.53mm, 2.65 $\mu$ m
D7213 (D2887-ext)	C5 - C60	70131	5m x 0.53mm, 0.88 $\mu$ m
		70115	5m x 0.53mm, 0.20 $\mu$ m
		70112	5m x 0.53mm, 0.10 $\mu$ m
D3710	gasoline up to C14	70132	10m x 0.53mm, 2.65 $\mu$ m
D5307	crude up to C42	70115	5m x 0.53mm, 0.20 $\mu$ m
D6352	C10 - C90	70112	5m x 0.53mm, 0.10 $\mu$ m
		70115	5m x 0.53mm, 0.20 $\mu$ m
D7500	C7 - C110	70112	5m x 0.53mm, 0.10 $\mu$ m
		70115	5m x 0.53mm, 0.20 $\mu$ m
D7169	C5 - C100	70112	5m x 0.53mm, 0.10 $\mu$ m
		70115	5m x 0.53mm, 0.20 $\mu$ m

### 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.

Accurate boiling point determination for medium and heavy fractions using GC simulated distillation requires columns and phase polymers that are robust enough to withstand high temperatures without significant degradation. Metal columns are a better alternative than fused silica, and the MXT®-1HT SimDist columns are the lowest bleed, highest efficiency columns available, outperforming other metal columns for critical method parameters.

ID	df	temp. limits	5-Meter	10-Meter
0.53mm	0.10 $\mu$ m	-60 to 430/450°C	70112	
	0.20 $\mu$ m	-60 to 430/450°C	70115	
	0.21 $\mu$ m	-60 to 430/450°C		70118
	0.88 $\mu$ m	-60 to 400/430°C	70131	70134
	1.00 $\mu$ m	-60 to 380/400°C		70130
	1.20 $\mu$ m	-60 to 380/400°C		70119
	2.65 $\mu$ m	-60 to 360/400°C		70132
	5.00 $\mu$ m	-60 to 360/400°C		70133

### Low bleed, high efficiency MXT®-1HT SimDist columns outperform competitors (ASTM D6352 conditions).

#### Lower bleed means:

- Longer column lifetime.
- More stable calibrations.
- Accurate boiling point determinations.

#### RESTEK ADVANTAGE:

Longer column lifetime and more accurate data!

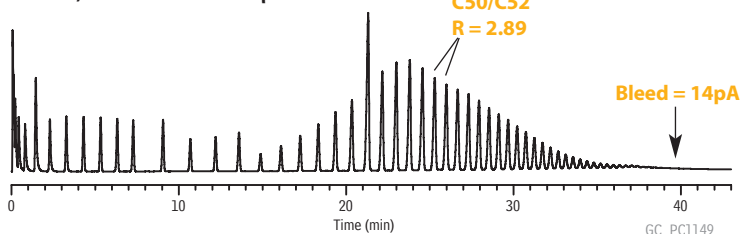
#### Higher efficiency means:

- Greater resolution; analyze more samples before method criteria are reached.
- Assured method performance.

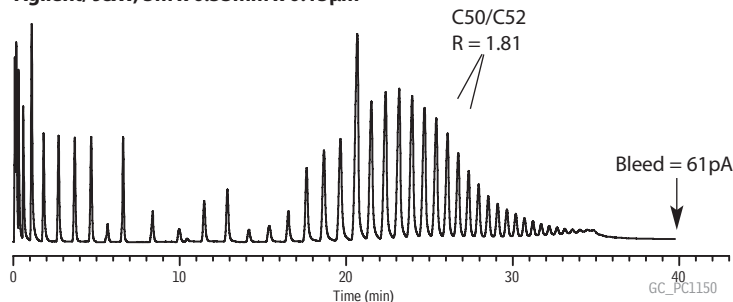
#### RESTEK ADVANTAGE:

Run more samples within method specifications!

Restek, 5m x 0.53mm x 0.2 $\mu$ m



Agilent/ J&W, 5m x 0.53mm x 0.15 $\mu$ m



Varian, 5m x 0.53mm x 0.17 $\mu$ m

