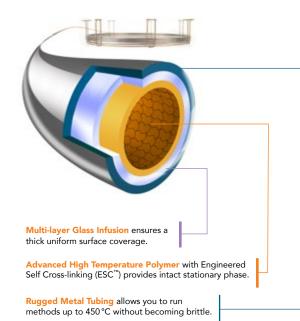
Easily find ASTM and Fuel applications at: www.phenomenex.com/ZB1XT





Sharper Peak Shape and Better Efficiency through **Uniform Glass Infusion™ Coating Technology**



Performance Benefits

- 1. Sharper Peaks and Higher Efficiency: Glass Infusion Technology Provides Uniform Coating and Minimizes Unwanted Activity.
- 2. Consistency and Reliability: Zebron Columns are INDIVIDUALLY Tested for Better Reproducibility and Overall Performance.
- Up to 70 % Higher Column Efficiency.
- 4. Long Lifetime and Better Results: Improved Resolution of C50/C52 Hour after Hour.
- 5. Guaranteed: 100 % Risk-Free.

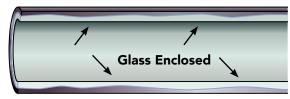
Improved Recovery and Peak Shape

The Benefits of Glass Infusion™ Technology

The Zebron ZB-1XT SimDist metal columns employ a new proprietary bonding called Glass Infusion Technology. The Glass Infusion technology starts by depositing a very uniform layer of glass that completely covers the internal metal surfaces of the column. The result is a uniform coating throughout the column.

VS.

Glass Infused ZB-1XT™



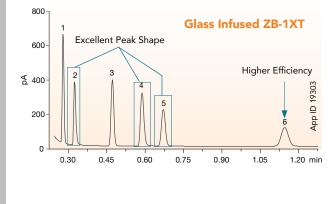


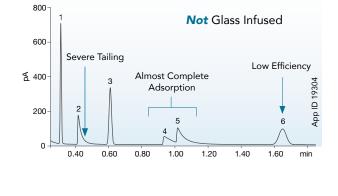


- Uniform Glass Infusion ensures adequate covering of exposed metal to promote better recovery and peak shape.
- Each Zebron ZB-1XT is individually tested to confirm and ensure excellent reproducibility.
- The uniform glass coating provides a consistent foundation for stationary phase bonding, thus promoting better overall efficiency and resolution.
- Non-glass infused with exposed metal can cause tailing peaks and sample adsorption.
- Some manufacturers batch test their columns, leading to poor column-to-column reproducibility.
- These exposed surfaces result in abnormal bonding of the stationary phase which affects chromatographic performance, decreases efficiencies, and inconsistent performance between columns.

Upgrade from Tailing Peaks and Sample Adsorption

Zebron[™] **ZB-1XT SimDist** (Glass Infused) **vs. Brand X** (Not Glass Infused)





GC Conditions for both columns: Injection: Split 100:1 @ 250 °C, 1.0 μ L

Carrier Gas: Hydrogen @ 1.93 mL/min (constant pressure) Oven Program: 130 °C (Isothermal)

Detector: FID @ 325 $^{\circ}$ C

Sample:

1. Undecane 2.4-Chlorophenol 3. Tridecane

4. 1-Undecanol 5. Dicyclohexylamine 6. Pentadecane

Note: Sample at 250 μ g/mL each in hexane

Easily Realize Resolution Gains on ASTM Methods

Zebron™ ZB-1XT SimDist Featured Applications Check out your ZB-1XT benefits! Hydrocarbons C7-C100+ (ASTM D7169)

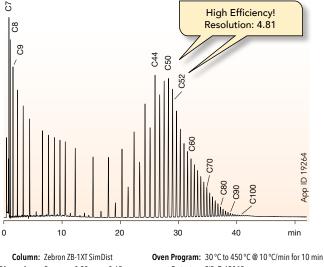
For Your Lab

Consistent Performance

- Improved Efficiencies Extended Lifetimes
- Reduced Carryover
- Minimum Maintenance
- For your Refining Process
- Better Process Planning Better Fractionating
- Increased Product Yields

Need more Help? Get it all at: www.phenomenex.com/chat

High Efficiency!



Dimensions: 5 meter x 0.53 mm x 0.15 µm Part No: 7AK-G026-05

Injection: On-Column @ 33 °C, 1 µL Carrier Gas: Helium @ 7 mL/min (constant flow) Detector: FID @ 450 °C Sample: C7 to C44 hydrocarbons and POLYWAX®

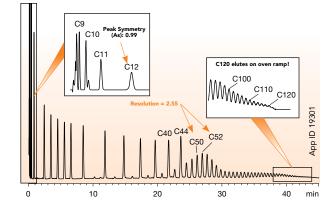
Note: Chromatogram is baseline subtracted.

Better Results for High Temperature SimDist Analysis (ASTM D7169)

Zebron™ ZB-1XT SimDist Featured Applications

Why just settle with C90 or C100 when you can extend the performance to higher hydrocarbons and optimize productivity. The combined ruggedness of the metal hardware and high temperature polymer used in each Zebron ZB-1XT SimDist column allows for extended analysis up to C120. With an extended analysis range, higher boiling point compounds will elute off the column instead of deteriorating column and system lifetime by remaining as residues.

Glass Infusion™ Technology provides improved efficiency, allowing sharper peaks and improved signal-to-noise for late eluting and



Column: Zebron ZB-1XT SimDist Dimensions: $5 \text{ meter x } 0.53 \text{ mm x } 0.09 \mu\text{m}$ Part No.: 7AK-G026-55 Injection: On-Column @ 53 °C, 1 µL Carrier Gas: Helium @ 34 mL/min (constant flow) Oven Program: $35 \,^{\circ}\text{C}$ to $430 \,^{\circ}\text{C} \, @ \, 9 \,^{\circ}\text{C/min}$ for 10 min Detector: FID @ 450 °C

> Sample: D2887 calibration mix with POLYWAX* 1000 in CS, Note: Chromatogram has been baseline subtracted.

Upgrade to Zebron™

Agilent®

- DB-HT SimDist CP-SimDist
- CP-SimDist UltiMetal DR-PS1
- DB®-1
- DB-PS2887

Restek® MXT[®]-1HT

- SimDist Rtx®-1
- Rxi®-1HT
- BPX1-SimD BP1

SGE®

Zebron ZB-1XT SimDist Metal GC Columns					
ID (mm)	df (µm)	Temp. Limits °C	Part No.		
5-Meter Co	lumn				
0.53	0.09	-60 to 450	7AK-G026-55		
0.53	0.15	-60 to 450	7AK-G026-05		
5-Meter Co	lumn with 2-M	eter Guardian™ Integrat	ed Guard		
0.53	0.09	-60 to 450	7AK-G026-55-GGT		
0.23	0.15	-60 to 450	7AK-G026-05-GGT		
10-Meter C	olumn				
0.53	0.15	-60 to 450	7CK-G026-05		
0.53	0.88	-60 to 450	7CK-G026-49		
0.53	2.65	-60 to 450	7CK-G026-35		
10-Meter C	olumn with 5-I	Meter Guardian™ Integra	ated Guard		
0.53	2.65	-60 to 450	7CK-G026-35-GGA		
15-Meter C	olumn				
0.53	0.25	-60 to 450	7FK-G026-11		

If you need a 5 in. cage, simply add a (-B) after the part number, e.g., 7CK-G026-05-B. Some exceptions may apply. Agilent 6850 and some SRI and process GC systems use only 5 in. cages.

Phenomenex | Web: www.phenomenex.com

- ASTM Methods (D2887, D6352, D7169) Crude Oil
- Gasoline Fractions
- Petroleum Distillates
- Petroleum Fractions
- Simulated Distillation Vacuum Distillates

Easy Seals™				
Part No.	Description	Unit		
Standard, s	ingle groove for splitless applications, 0.8 mm dia. inlet hole			
AG0-8619	Easy Seal Inlet Base Seal, Gold Plated, for Agilent GCs	2/pk		
AG0-8620	Easy Seal Inlet Base Seal, Gold Plated, for Agilent GCs	10/pk		
Ceramic S	coring Wafers			
Part No.	Description	Unit		



AGO-4718 Ceramic Scoring Wafer

Your happiness is our mission. Take

45 days to try our products. If you are not happy, we'll make it right.

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- Less Adsorption
 Better Peak Shape Higher Efficiencies
 - for your Simulated Distillation GC Method





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