Molecular Sieve 5A PLOT Columns

Restek's molecular sieve 5A PLOT columns are designed for efficient separation of argon/oxygen and other permanent gases, including carbon monoxide. Special coating and deactivation procedures ensure chromatographic efficiency and the integrity of the porous layer coating. Molecular sieves have very high retention, allowing separations of permanent gases at temperatures above ambient. Our deactivation technology also allows carbon monoxide to elute as a sharp peak. Additionally, our unique immobilization process guarantees that the uniform particles remain adhered to the tubing—even after continuous valve-cycling.

Rt®-Msieve 5A Columns (fused silica PLOT)

- Improve accuracy with sharp, symmetrical peaks for argon, oxygen, and carbon monoxide.
- Easily separate permanent gases at temperatures above ambient.
- Restek* PLOT technology reduces particle release, improving flow reproducibility and reducing downtime for maintenance.
- Stable to 300 °C.

			15-Meter	30-Meter	
ID	df	temp. limits	cat.#	cat.#	
0.25 mm	20 µm	to 300 °C	19773	-	
0.32 mm	30 µm	to 300 °C	19720	19722	
0.53 mm	50 µm	to 300 °C	19721	19723	

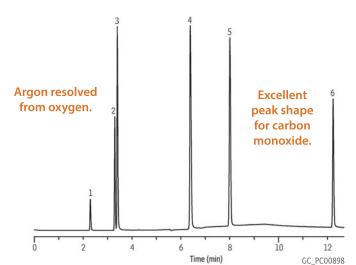
did you know?

Rt $^{\circ}$ -Msieve 5A PLOT columns are designed for efficient separation of Ar/O $_2$ and other permanent gases, including CO.

similar phases

HP PLOT Molesieve, CP-Molsieve 5A, Molsieve 5A, AT-Molsieve, PLT-5A





	Peaks	Conc. (µg/mL)	Column Sample	Rt®-Msieve 5A, 30 m, 0.53 mm ID, 50 μm (cat.# 19723) Permanent gases
3. 4. 5.	Hydrogen Argon Oxygen Nitrogen Methane Carbon monoxide	40 30 50 50 40 50	Injection Sample Loop Vol.: Valve Name: Inj. Temp.: Valve Temp.: Oven Oven Temp.: Carrier Gas Flow Rate:	Sample valve 5 µL 6-port Valco® valve 200 °C Ambient 27 °C (hold 5 min) to 100 °C at 10 °C/min (hold 5 min) He, constant flow 5.0 mL/min
			Detector	Valco® helium ionization detector @ 150 °C



Molecular sieve materials are very hydrophilic

Because molecular sieve materials are very hydrophilic, they will adsorb water from the sample or carrier gas. Water contamination can have a detrimental effect on peak symmetry and can reduce the resolution of all compounds. If water contamination occurs, reactivate your Rt®-Msieve 5A PLOT column by conditioning at 300 °C with dry carrier gas flow for 3 hours.



