Molecular Sieve 5A PLOT Columns

please note

RtTM-Msieve 5A PLOT columns are designed for efficient separation of Ar/O_2 and other permanent gases, including CH_4 , C_2H_6 , and CO.

tech tip

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 RtTM_Msieve 5A PLOT column by conditioning at 300°C with dry carrier gas flow for 3 hours.

did you know?

ShinCarbon ST micropacked columns are another alternative for analyzing permanent gases.

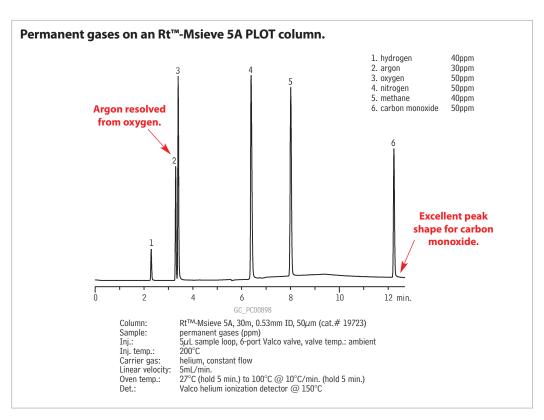
See page 116 for information.

Rt[™]-Msieve 5A PLOT Columns

Rt[™]-Msieve 5A PLOT columns are designed for efficient separation of Ar/O₂ and other permanent gases, including CH₄, C₂H₆, and CO. Special coating and deactivation procedures ensure chromatographic efficiency and the integrity of the porous layer coating. The high surface area of the Rt[™]-Msieve is generated by the pore structure present in the molecular sieve. Only compounds that can enter the pores will be exposed to this surface and will be retained. Molecular sieves have very high retention, allowing separations of permanent gases at temperatures above ambient. Additionally, Restek's unique immobilization process guarantees that the uniform particles remain adhered to the tubing—even after continuous valve-cycling.

Our revolutionary molecular sieve 5A PLOT columns separate Ar/O₂ and H₂/He at ambient temperature or above (see figure). These columns also are an excellent choice for rapid separation of permanent gases in refinery or natural gas.

Our deactivation technology also allows the CO peak to elute as a sharp peak. This is in contrast with other suppliers where CO often tails badly and cannot be quantified below % levels.



Rt[™]-Msieve 5A Columns (fused silica PLOT)

ID	df (µm)	temp. limits	15-Meter	30-Meter	
0.32mm	30	to 300°C	19720	19722	
0.53mm	50	to 300°C	19721	19723	



