



available with the Q porous polymer or Molecular sieve 13X zeolite. Figure 2 shows the analysis of light hydrocarbons on a T"-Q PLOT column and the analysis of permanent gases on an MXT"-Msieve 13X PLOT column.

**COLUMN TO COLUMN REPRODUCIBILITY GUARANTEED**

Each porous polymer PLOT column is tested with a hydrocarbon test mix to insure proper phase thickness and selectivity. Propane is used to calculate the partition ratio which is monitored to insure a reproducible film thickness. The number of plates per meter is calculated and used to evaluate column efficiency. Selectivity is ensured by calculating the retention indices of acetylene and methyl acetylene.

Molecular sieve PLOT columns are all tested with a mixture of permanent gases. In this test the peak height ratio of carbon monoxide is used to determine a uniform

film and to calculate the number of plates per meter.

Restek's expanding line of PLOT columns continue to bridge the gap from packed to capillary columns. Through continuing research Restek now offers unbreakable and particle free porous Layer Open Tubular capillary columns for the analysis of permanent gases, light hydrocarbons and volatile chemicals.



**PLOT Columns**

**Rt-S**

(fused silica)

- 30m, 0.53mm ID cat.# 19712
- 15m, 0.53mm ID cat.# 19713
- 30m, 0.32mm ID cat.# 19710
- 15m, 0.32mm ID cat.# 19711

**Rt-Q**

(fused silica)

- 30m, 0.53mm ID cat.# 19716
- 15m, 0.53mm ID cat.# 19715
- 30m, 0.32mm ID cat.# 19718
- 15m, 0.32mm ID cat.# 19717

**MXT"-Q**

(SilcosteelP)

- 30m, 0.53mm ID cat.# 79716
- 15m, 0.53mm ID cat.# 79715

**Rt-Msieve 13X**

(fused silica)

- 30m, 0.53mm ID cat.# 19706
- 15m, 0.53mm ID cat.# 19708
- 30m, 0.32mm ID cat.# 19705
- 15m, 0.32mm ID cat.# 19707

**MXT"-Msieve 13X**

(Silcosteel")

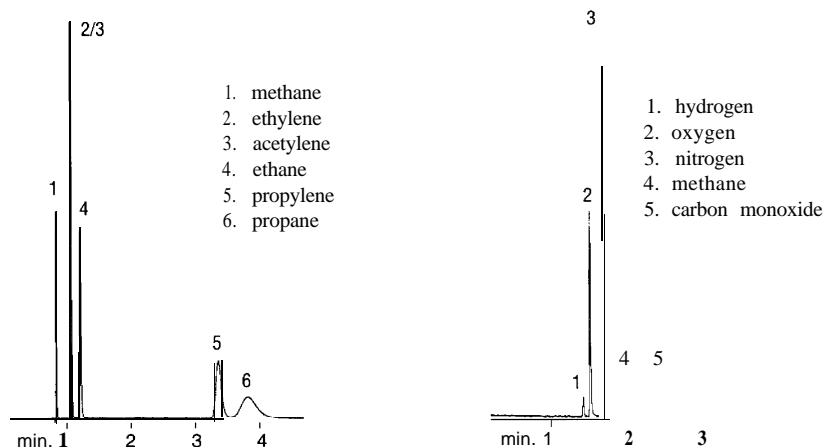
- 30m, 0.53mm ID cat.# 79706
- 15m, 0.53mm ID cat.# 79708

**Rt-Alumina**

(fused silica)

- 30m, 0.53mm ID cat.# 19700
- 50m, 0.53mm ID cat.# 19701
- 30m, 0.32mm ID cat.# 19702
- 60m, 0.32mm ID cat.# 19703

**Figure 2 - MXT" PLOT columns give fast, efficient separation of light hydrocarbons & permanent gases.**



30m, 0.53mm ID MXT-Q (cat.# 79716)  
 100ul hydrocarbon n 20ul split inj. of permanent gases.  
**Oven temp.:** 50C isothermal  
**Inj. & det. temp.:** 200°C  
**Carrier gas:** hydrogen  
**Linear velocity:** 6.5cm/sec.  
**FID sensitivity:** 1.28 x 10-11 AFS  
**Split ratio:** 10:1

30m, 0.53mm ID MXT-Msieve 13X (cat.# 79706)  
**Oven temp.:** 40C isothermal  
**Inj. & det. temp.:** 200°C  
**Carrier gas:** helium  
**Linear velocity:** 37cm/sec.  
**Detector:** TCD (212 mA)  
**Split ratio:** 15:1