

## Features & Benefits of Restek PLOT Columns

### Features

Highest quality porous materials.

Consistency in porosity and uniformity in particle and pore size are major concerns in designing the solid stationary phase. We developed a unique synthesis and selection technology to yield uniform, small diameter particles that are ideal for a specific separation.

Particles are 100% bonded to the tubing.

Restek coating and bonding techniques produce strong, uniform particle adherence to the inside of the capillary tubing. Customers have described Restek's Rt™-Msieve 5A PLOT column as "bulletproof," meaning that the stationary phase is bonded so strongly that particle generation is completely eliminated.

Reproducible quality.

Because we use advanced technology to make these columns, the entire manufacturing process is simple and stable. Each step of the column-making process is meticulously quality-checked, allowing Restek to offer the best quality PLOT columns.

### Benefits

The most consistent and efficient analyses obtainable.

No need for particle traps because particle generation is eliminated.

Reproducible performance.

## Quick Reference Chart

PLOT Column	Application	Page
Rt™-Alumina	C1–C5 hydrocarbons. purity analysis of ethylene, propylene, butenes, butadiene .....	94–95
Rt™-Msieve 5A	Permanent gas analysis. He, Ne, Ar, O <sub>2</sub> , N <sub>2</sub> , Xe, Rn, SF <sub>6</sub> , and CH <sub>4</sub> , C <sub>2</sub> H <sub>6</sub> , Co .....	96
Rt™-QPLOT	Nonpolar porous polymer. High retention for volatiles, CO <sub>2</sub> , sulfur, and ppm water in solvents .....	97
Rt™-QSPLIT	Intermediate polarity porous polymer. Baseline separation of ethane, ethene, acetylene .....	97
Rt™-SPLOT	Intermediate polarity porous polymer. Light gases in ethylene and propylene, ketones, esters .....	97
Rt™-UPLOT	Polar porous polymer. More retention for polar compounds .....	97

## PLOT Column Phase Cross-Reference: Similar Performance

Restek	Porous Layer	Agilent/J&W	Supelco	Alltech	Varian/Chrompack	Quadrex
Rt™-Alumina	Aluminum oxide	GS-Alumina, HP PLOT S, HP PLOT M	Alumina-PLOT	AT-Alumina	CP-Al <sub>2</sub> O <sub>3</sub> /NA <sub>2</sub> SO <sub>4</sub>	—
Rt™-Msieve 5A	Molecular sieve 5A	GS-Molsieve, HP PLOT/Molesieve	Molsieve 5A PLOT	AT-Molesieve	CP-Molesieve 5A	PLT-5A
Rt™-QPLOT	DVB porous polymer	—	Supel-Q-PLOT	AT-Q	CP-PoraPlot Q, PoraBond Q	—
Rt™-QSPLIT	Intermediate polarity porous polymer	GS-Q	—	—	—	—
Rt™-SPLOT	DVB vinylpyridine polymer	—	—	—	CP-PoraPlot S	—
Rt™-UPLOT	DVB ethyleneglycol- dimethylacrylate polymer	HP-UPLOT	—	—	CP-PoraPlot U, PoraBond U	—