

# Lab Highlights

## RADIAL COMPRESSION

### A BETTER TECHNOLOGY FOR A PACKED-BED STRUCTURE

Data from our own manufacturing activities substantiate the fact a particular particle size material operated under radial compression always results in substantially more plates per unit column length than the same particle size in a steel column. As just one example of this, Figure 1 shows the data for the 5 micron RESOLVE™ C18 material. The plates are 30% higher (normalized for column length) in radial compression than in steel tubes.

Additionally, it can be seen that radial compression results in a more reproducible efficiency than is available in steel columns--a big benefit for a user. This is supported by the data showing the width of the distribution of plates expressed in percent relative standard deviation is smaller by a factor of two for the cartridge configuration compared to the column.

### 5 micron RESOLVE C18

