effective theoretical plate number

of a chromatographic column

A number indicative of column performance when resolution is taken into account:

$$N = \frac{16\,R_{\mathrm{s}}^{2}}{(1-\alpha)^{2}}$$

where R_{s} is the peak resolution and α is the separation factor.

See also: plate number *in chromatography*

Source:
Orange Book, p. 108