

flow resistance parameter, Φ

in chromatography

A term used to compare packing density and permeability of columns packed with different particles; it is dimensionless.

$$\Phi = \frac{d_p^2}{B_0}$$

where d_p is the average particle diameter. In open-tubular columns $\Phi = 32$.

Source:

PAC, 1993, 65, 819 (*Nomenclature for chromatography (IUPAC Recommendations 1993)*) on page 833