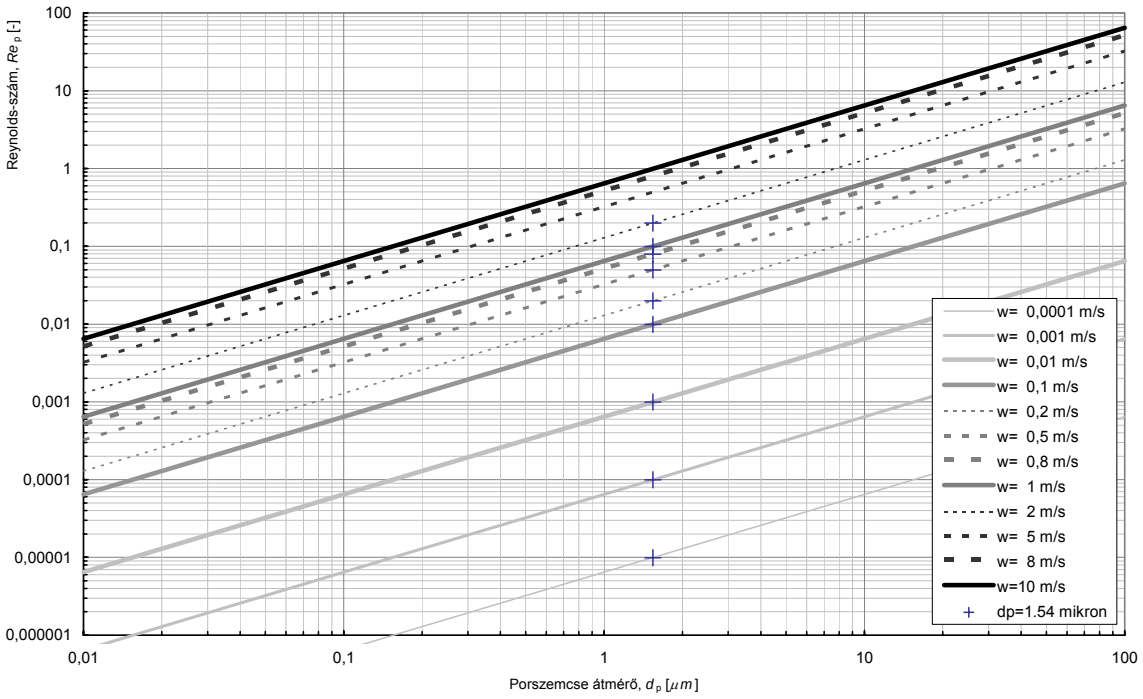
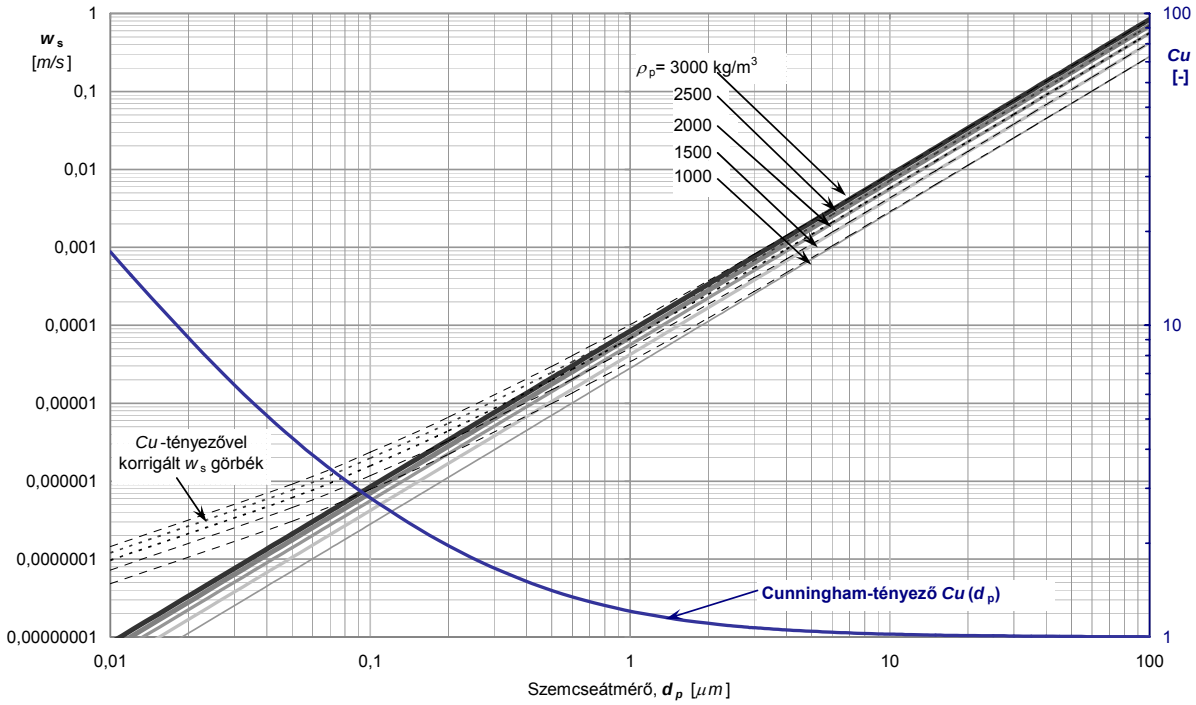


$$\boldsymbol{F}_{Stokes} = 3\pi\,\mu\, d_p \boldsymbol{w}\,, \qquad Re_p = \frac{w \cdot d_p}{\nu} = \frac{w \cdot d_p \cdot \rho_g}{\mu}\,, \qquad c_d = \frac{F_{Stokes}}{\frac{\rho_g}{2} w^2 \frac{d_p^2 \pi}{4}}\,, \qquad c_d = \frac{24}{Re_p}$$

OSEEN $$c_d = \frac{24}{Re_p} \cdot \left(1 + \frac{3}{16} Re_p\right) \qquad Re_p < 5 \qquad (1)$$

OSEEN $$c_d = \frac{24}{Re_p} \cdot \left(1 + \frac{Re_p^{\frac{2}{3}}}{6}\right) \qquad 3 < Re_p < 400 \qquad (2)$$

MICHAELIDES $$c_d = \frac{24}{Re_p} \cdot \left(1 + 0{,}15 \cdot Re_p^{0{,}687}\right) \qquad 0{,}1 < Re_p < 1000 \qquad (3)$$



Szemcse süllyedési (ülepedési) sebessége, ill. *Cu*: Cunningham-féle korrekciós tényező:

$$w_s = \frac{(\rho_p - \rho_g) d_p^2 g}{18\mu} \cong \frac{\rho_p d_p^2 g}{18\mu} \qquad Cu = 1 + 1{,}246 \cdot \frac{2\lambda}{d_p} + 0{,}42 \cdot \frac{2\lambda}{d_p} \cdot e^{-0{,}87\frac{2\lambda}{d_p}} \qquad \left(Cu \cong 1 + \frac{2A\lambda}{d_p}\right)$$