

Sedimentation Equations

Bernoulli and Navier Stokes Equations	Control Volume Equations	Dimensional Analysis Equations	Equations	Flocculation Equations
Flow Measurement Equations	Open Channel Flow Equations	Pipe Flow Equations	Process Controller equations	Sedimentation Equations
Statics Equations	Using Confluence - Tips and Tricks			

$$V_t = \sqrt{\frac{4}{3} \frac{gd}{C_d} \frac{(\rho_p - \rho_f)}{\rho_f}}$$

terminal velocity sphere

$$v_c = \frac{v_{up}}{\left[1 + \frac{L_{lamella}}{lamella spacing} \cos(\alpha) \sin(\alpha)\right]}$$

sedimentation - critical velocity

$$N_{lamella} = floor\left(\frac{L_{active} - channel width}{\frac{lamella spacing}{\sin(\alpha)}}\right)$$

sedimentation - number of lamella

$$V_{up} = V_t \left(1 + \frac{L}{a} \sin \alpha \cos \alpha\right)$$

sedimentation - upflow velocity

$$n_{lam} = \frac{Q}{V_{up}wb}$$

sedimentation - number of lamellas