

### **velocity (in mass transport)**

The *flux* density  $N_B$  is related to the velocity by the equation

$$N_B = c_B \mathbf{v}_B$$

The vector  $\mathbf{v}_B$  is the macroscopic average velocity at which the species B moves (which is to be distinguished from the random molecular velocity);  $c_B$  is the concentration of species B ( $\text{mol m}^{-3}$ ). Note that the velocity is defined with respect to a frame of reference.

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