

diffusion layer thickness

Defined by the equation:

$$\delta = \frac{D}{k_d} = \frac{n F D c A}{l_i}$$

where D is the diffusion coefficient, k_d is the heterogeneous diffusion rate constant, F is the Faraday constant, c is the concentration, A is the geometric area of the electrode, l_i is the limiting current and n is the charge number of the cell reaction.

Source:

PAC, 1974, 37, 499 (*Electrochemical nomenclature*) on page 513