

Thermodynamics of chemical and electrochemical stability of alloys of the Cu–Si system

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Abstract

A phase diagram of Cu–Si–O system state and a potential – pH diagram of Cu–Si–H₂O system at 25 °C, pressure of 1 bar and activities of ions in solution equal to 1 and 10⁻⁶ mol/l are plotted. The corrosion-electrochemical behaviour of alloys in the Cu–Si system in aqueous media has been considered from the viewpoint of thermodynamics.