Erratum: High-Temperature Corrosion of Nickel in SO$_2$*

P. Kofstad† and G. Åkesson†

The partial pressures of sulfur for the equilibria $Ni_{3\pm x}S_2/Ni_{1-x}S$ and $Ni_{1-x}S/NiS_2$ at 800°C (Fig. 17) have been assigned too low values. Following T. Leegaard and T. Rosenqvist [*Z. anorg. allgem. Chemie* **328**, 294 (1964)], the values at 800°C are given by

$$p_{S_2}(Ni_{3\pm x}S_2/N_{1-x}S) = 8 \cdot 10^{-4} \text{ atm}$$

$$p_{S_2}(Ni_{1-x}S/NiS_2) = 1 \cdot 0 \text{ atm}$$

These values imply that the $Ni_{1-x}S$ phase can not be formed in the reaction of Ni with SO$_2$ at 800°C at $p_{SO_2} \lesssim 1$ atm.