

Supplementary Information

“Zero-Waste”: A Sustainable Approach on Pyrometallurgical Processing of Manganese Nodule Slags

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Table S1. Description of occurring phases from the phase diagram (Figure 5).

Number	Name in FactSage™	Description for this Phase Diagram
1	Monoxide	Solid solution containing CaO and MnO
2	a-Ca ₂ SiO ₄	Solid solution containing Ca ₂ SiO ₄ and dilute Mn ₂ SiO ₄
3	Mn ₂ O ₃ (s2)	Pure and solid Mn ₂ O ₃ (cubic bixbyite)
4	Olivine	Solid Solution containing Ca ₂ SiO ₄ and Mn ₂ SiO ₄
5	Rhodonite	Solid solution containing MnSiO ₃ and dilute CaSiO ₃
6	Wollastonite	Solid solution containing CaSiO ₃ and dilute MnSiO ₃
7	SiO ₂ (s4)	Pure and solid SiO ₂ (tridymite)
8	SiO ₂ (s6)	Pure and solid SiO ₂ (cristobalite)
9	Slag-liq#2	Immiscible second slag phase, occurring at high SiO ₂ -contents
10	CaSiO ₃ (s2)	Pure and solid CaSiO ₃ (pseudowollastonite)
11	Ca ₃ Si ₂ O ₇ (s)	Pure and solid Ca ₃ Si ₂ O ₇ (rankinite)