



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

MATERIALS MANAGEMENT DIVISION

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Technical specification

FactSage thermodynamic software :

- The thermodynamic software must include an oxide database for slag, refractory, mold flux and special flux (oxy-fluoride). This must include systems such as oxide system containing CaO-MgO-Al₂O₃-SiO₂-FeO-Fe₂O₃-MnO-Mn₂O₃-TiO₂-Ti₂O₃-CrO-Cr₂O₃-Cu₂O-NiO-ZnO-P₂O₅, sulphide system CaS, MgS, FeS, and MnS, oxyfluoride containing Na₂O-K₂O-CaO-MgO-Al₂O₃-SiO₂-B₂O₃-BaO-SrO-NaF, CaF₂ with minor sulphides and oxides contents mentioned earlier.
- The thermodynamic software must have a viscosity database containing structural viscosity model for oxide melt covering Na₂O-K₂O-CaO-MgO-Al₂O₃-SiO₂-FeO-Fe₂O₃-MnO-TiO₂-Ti₂O₃-CrO-Cr₂O₃-NiO-B₂O₃ and Fluorides.
- The thermodynamic software must provide developer access that can allow to build on existing database, create additional database and automate equilibrium and property calculations.