Chemischer Transport intermetallischer Phasen IV: Das System Fe - Ge

Chemical Vapour Transport of Intermetallic Phases IV: The System Fe - Ge

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Chemical Vapour Transport, Phase Diagram

Six phases exist in the binary system iron-germanium Fe_3Ge, β, η, Fe_6Ge_5, FeGe and $FeGe_2$. All phases could be prepared by chemical transport with iodine as transport agent in the temperature range between T_1 (600 °C) and T_2 (950 °C). Two phase diagrams have been known in the literature from specific experiments of chemical vapour transport. It is now possible to decide which phase diagram is the most valid description.