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Phase composition and microstructure of the obtained under nonequilibrium crystallization conditions Mo-Si alloys

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Abstract

Silicide phases close to the stoichiometric compositionwhen vacuum-arc melting of Mo-Si alloys from Mo+(5-12)Si mixtures are formed. The density of alloys regularly decreases as the silicon concentration in them increases. Microhardness of silicide phases in the alloy and of pure molybdenumsilicides have similar values.