

Magnetic and Mossbauer studies of the DyFe₁₁Mo compound

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Abstract: A detailed study of the intrinsic magnetic and anisotropic properties of the DyFe₁₁Mo compound were reported. The compound showed a spin orientation phase transition at a temperature of 220K. The anomalies in physical properties such as saturation magnetization, ac susceptibility and hyperfine fields at the transition temperature were identified.

Author Keywords: Mossbauer spectrometry; Rare earth-transition metal intermetallics; Spin reorientation

Index Keywords: Intermetallics; Magnetic anisotropy; Magnetic field effects; Magnetic susceptibility; Magnetization; Mossbauer spectroscopy; Phase transitions; X ray diffraction analysis; Rare earth-transition metal intermetallics; Spin orientations; Dysprosium compounds

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