

Structural and strains analyses of FeCo/Al₂O₃ elaborated by milling time

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Abstract : The effect of milling time of Fe matrix strengthened with 40% wt % Al₂O₃ during mechanical alloying was examined for nanocomposite alloy at different milling times (5, 15, 20, 30 h), during milling the lattice strain increased from 0.34 to 0.64%, and residual stress increased from 93.024 to 175.104 Gpa, it is due to sever deformation plastic.

Keywords : Fe/Al₂O₃ nanostructured, MEB, DRX, EDX