Effect of beta tricalcium phosphate ($\beta\text{-}TCP)$ on properties of Mg-Zn composites

Abstract

In this work, Mg and Zn powder were used to prepare the Mg-Zn/ β -TCP composites with different β -TCP composition by using powder metallurgy technique. The composite were mixed using ball mill and compacted at 500 MPa. The composites sintered at 450 °C in tube furnace for two hours. The effects of properties on Mg-Zn with different composition of β -TCP were studied. The results on the effect of β -TCP composition were analyzed in terms of density and microstructural analysis.

Keywords; Composites Metallurgy, Magnesium, Powder Metallurgy, Zinc, β-TCP