

AN EXPERIMENTAL STUDY ON THE WEAR BEHAVIOUR OF THIXOFORMED COMPONENTS IN ALUMINUM ALLOYS

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In thixoforming process the material is processed at a temperature range in between the solidus and liquidus temperatures. Thixocasting is a variation of this technology where billets with the desired microstructure are initially made and formed using pressure die casting machines. Thixoforming process results in components with better mechanical properties as compared to conventional processes. The present study focused on the wear behavior of aluminum alloy of thixoformed components. Experimental studies are carried out to determine the effect of process parameters like billet temperature and die temperature on wear behavior. The results indicate a significant effect of process parameters on the wear properties of Al 356 aluminum alloy

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