EVALUATION OF HARDNESS AND CORROSION BEHAVIOUR
OF Al 7075/TiB₂/ Cr₂O₃ COMPOSITE

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ABSTRACT
Aluminium composite is an attractive material for using in corrosive environment. Many studies have been conducted on corrosion rate in Aluminium composites. In this work Aluminium 7075 composite is reinforced with TiB₂ and Cr₂O₃ with different weight percentage of reinforcements. From the results it is understood that the density of the composite increases with more addition of reinforcements to the matrix. The uniform immersion test (ASTM–G31) in 90 ml of HCl was conducted. It was found that there is an increase in corrosion resistance when the reinforcements were added.

KEYWORDS: Aluminium Composite, Uniform Immersion Test & Corrosion

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