

## STUDY OF WEAR BEHAVIOR OF AS CAST TIC/7075 COMPOSITE

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### ABSTRACT

Aluminum alloy 7075 reinforced with *in situ* 3 wt. % TiC particles was synthesized successfully by using reaction technique. The produced composite has shown a significant enhancement in mechanical properties in comparison to the base alloy. The wear behavior of both composite and base alloy at 5, 10 and 20 N was studied. At normal load of 5 N, the wear resistance of composite was higher than that of the base alloy. The wear rate increased with the increase on applied load.

**KEYWORDS:** Study of Wear Behavior of As Cast Tic/7075 Composite