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PROJECT REPORT ON

"A STUDY ON WEAR CHARACTERISTICS OF Al -SiC_P COMPOSITES"

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SUBMITTED BY

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ABSTRACT

The wear behavior of Al 2219 matrix composite reinforced by SiC particulate is investigated. The composite specimens were fabricated using Stir casting technique by changing reinforcement percentage.

The wear tests were carried out using a Pin-on-Disc technique and Sliding distance, sliding speed; Normal load Dependent experiments were conducted. The experimental work extended to investigate the wear behavior at room temperature.

The results obtained, indicate that the increase in reinforcement percentage enhance the wear resistance. The study also reveals that wear volume increases with increase in sliding distance, sliding speed and wear volume is maximum in normal load dependent experiments. From "Change in percentage of reinforcement" experiment it is observed that wear resistance of Al-12.5% SiC_p is highest among materials tested.