

# Experimental Analysis of Mechanical Properties of Aluminium 6063 Alloy with Graphite and Dry Wheat Husk by Stir casting Process

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## ABSTRACT

The main objective of work is to study the behaviour of Al6063 and graphite metal matrix composites (MMC) of aluminium alloy of grade 6063 with addition of varying percentage composition of graphite and dry wheat husk made by stir casting technique. The tensile strength, Hardness, Density like mechanical properties will also be taken into consideration. To achieve the objective of present work, an experimental set up is prepared where all the inputs are made. The aim of the experiment is to study the effect of variation of the percentage composition to predict them echanical properties of the metal matrix composites(MMC).The experiment was carried out by preparing the sample Aluminium6063 - 80%+graphite15%+dry wheathusk5%) of different percentage composition by stir casting technique.

**Keywords:**Al6063,Graphite,Drywheathusk,Stircasting,Mechanicalproperties.