

POROSITY ANALYSIS OF FRICTION STIR WELDED AL 6061 ALUMINIUM ALLOYS

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ABSTRACT

Friction Stir Welding (FSW) is one of the most widely used techniques when welding is carried out to obtain extreme levels of strength. Welded Aluminium alloy structures form the major part of leading industrial technologies used in manufacturing. These friction-stir welded alloys are used in numerous applications like aerospace, military, automobile and related technologies. It is therefore, important to analyse this welded material for all kinds of processing defects. Porosity is one such type of defect which can affect the strength of a welded joint. This paper presents the porosity analysis of Al 6061 Aluminium alloys welded using FSW.

KEYWORDS: *Friction Stir Welding (FSW), Porosity, Aluminium Alloy, Welding*

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