

## **Influence of Post Weld Heat Treatment on Mechanical and Metallurgical Properties of TIG Welded Aluminium Alloy Joints**

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**Abstract :** Aluminium and its alloys play have excellent corrosion resistant properties, ease of fabrication and high specific strength to weight ratio. In this investigation an attempt has been made to study the effect of different post weld heat treatment methods on the mechanical and metallurgical properties of TIG welded joints of the commercial aluminium alloy. Three different methods of post weld heat treatments are, solution heat treatment, artificial aged and combination of solution heat treatment and artificial aging are given to TIG welded aluminium joints. Mechanical and metallurgical properties of as welded and post weld treated joints of the aluminium alloys was examined.

**Keywords :** aluminium alloys, TIG welding, post weld heat treatment

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