A comparative study between pulsed and unpulsed Ti-6Al-4V alloy TIG welds

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Abstract: The aim of this work is to study the effect of TIG welding process on microstructure and mechanical properties of Ti-6Al-4V titanium alloy. Automatic TIG arc welding with pulsed and unpulsed currents under pure argon shielding gas was used as a joining process with different parameters. A comparative study was conducted between the two welding process and the results were discussed.

Keywords: TA6V; TIG Welds; Pulsed; Unpulsed, mechanical properties