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Morphology and Mechanical properties of β -grain boundary in Ti-6Al-4V TIG welds.

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Abstract : In this Work, the effect of the TIG Welding process on the Morphology and mechanical behavior of β grain boundary (β -GB) phase appearing in TA6V welds are investigated. Different morphologies are observed depending on the pulsed frequency parameter, namely, the Zig-Zag morphology, the saw-teeth morphology and the normal continuous layer. The micro-hardness of each morphology has been measured and discussed.

Keywords : TA6V, TIG Welds, β -Grain Boundary, Microhardness