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Influence of LBW parameters on properties of Ti6Al4V/AA2024 dissimilar alloy joint

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Description Light weight dissimilar metal joints are very much needed for aerospace, automobile and similar such industries. While assessing the feasibility of joining dissimilar metals to produce sound weldment, numerous factors are to be considered. In the present investigation an attempt is made to join Ti6Al4V and AA2024 dissimilar metals using laser beam welding (LBW) under different weld speeds. For evaluating microstructure, scanning electron microscope (SEM) analysis has been adopted. Experimental investigations reveal that weld speed is found to be a significant variable to enhance strength of weld joint. Finer grains with homogeneous distribution at higher speeds as seen using SEM support this finding.

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