

Experimental Analysis Of Square Butt Welding In Carbon Steel Material Of Thickness 6mm, 8mm And 10mm Using Submerged Arc Welding.

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ABSTRACT

Usually for the material of thickness in the range from 6-10 mm the SMAW (Shielded Metal Arc Welding) is performed. But there are several types of defects which very frequently occur in these defects and they are as follows Undercut, Porosity, Spatters, and Arc Strike etc. In order to overcome these defects we came with the solution of performing SAW (Submerged Arc Welding) for the same material along with the same thickness in range of 6-10mm. This welding not only results in overcoming the above mentioned defects but also to achieve good finish. This method also helps in saving a lot of time when compared to SMAW (as SMAW involves the manual working for welding).