

عنوان مقاله:

Improvement agents in the process of protecting metal arc welding using D.O.E method

محل انتشار:

کنفرانس بین المللی راهکارها و چالش های مدیریت و مهندسی صنایع (سال: 1398)

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خلاصه مقاله:

Due to existing competitive market companies try to reduce their cost while productivity and efficiency still remain same. The welding spatter problem or sticking spatters on the surface is always the main cause of rejecting or reworking on the defective parts from Shielded Metal Arc welding (SMAW) process. To avoid such circumstances the operator has to select best set of electrode, electrical supply, and welding angle regarding the material thickness. This study is concerning to improve the condition of Shielded Metal Arc welding (SMAW) process in order to reduce a welding spatter problem. Wastes related to welding and its rework processes is a high costly and time consuming process which may made a disaster to company in phase of cost effectiveness or even responsiveness strategies. Most defects are caused by spatters out of weld pool. As mentioned before, there are some important indicators which effect spattering rate namely, type of thickness of materials, electrical supply and welding angle. All factors were tested at 2 levels. A factorial experiment design was conducted in order to study all possible combinations of the .three factors. The experiment was done at significant level of 0.05 with two replications

کلمات کلیدی:

electrode, welding angle, welding spatter, spattering rate, Shielded welding

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