

INFLUENCE OF THE SECONDARY AIR PRESSURE IN THE DEPOSITION EFFICIENCY OF A TWIN WIRE ELECTRIC ARC SPRAYING

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ABSTRACT

One of the major concerns of today's manufacturing sector is the in-crease in the cost of the materials and not able to utilize them to its fullest potential. This can be recovered by increasing the efficiency of the process. This paper attempts to decrease the monetary losses that are caused by insufficient deposition of tin and tin/zinc on the surface of a thin film capacitor by the process of electric arc spraying. Various modifications in the existing parameters have been put forth and amongst them, the feasible one is worked upon. Experimental investigation shows that the introduction of secondary passage in the air cap of the electric gun leads to more deposition of the material, thereby decreasing the temperature and increasing the coating thickness of the substrate. This will cater to the effective utilization of both the material as well as cost.

KEYWORDS: *Electric Arc Spray, Design, Secondary Air Pressure, Deposition Ef-Ficiency*