

Corona discharge in the process of spraying protective powder coatings on piezoceramic materials

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Abstract

© 2014 by Begell House, Inc. The objects of research are powder coatings and the technology of their application to ultrasonic piezoelectric elements. The results of studies of the distribution of coating thickness for different modes of coating application are presented. The results of simulation of the gas suspension motion in the electrostatic field in the needle-plane electrode system have been confirmed experimentally.

<http://dx.doi.org/10.1615/HighTempMatProc.2015015694>

Keywords

Corona discharge, Piezoceramic, Powder coating, Powder spray gun, Spatial thickness distribution