

EROSION PRODUCT EXTENSION IN AN
ELECTRIC ARC IN THE DIFFUSION MODE

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S u m m a r y

The features of the extension of vapours of electrode materials in the diffusive mode in a free-burning electric arc in the case of low currents are investigated. The radial vapour distributions for two temperature profiles are obtained. The first is Gaussian as the approximation of experimental results. The second is a self-consistent solution of the heat equation.