

Bulletin

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File: 2.4.1.12
Issued: 1 June 1983
Supersedes: 14 Jan. 1981

COPPER DEPOSIT ON CARBON ELECTRODE HOLDER FOR ARC FURNACE

This application of the TAF A arc spray technique demonstrates how massive coatings of copper can be applied to the inside diameter of electrode holders used in carbon arc furnaces. The copper was applied to improve the electrical conductivity between the holder and the carbon electrode. Such coatings have been applied to new holders as well as to holders sent back for repair and reclamation. The copper coating (TAF A 05T) is extremely thick and well bonded to the surface of the holder and substantially improves the efficiency of operation of the arc furnace. (See TAF A Bulletin 1.9.1.2-05T for specific spraying, finishing parameters and coating properties).

