Article ID: 1003-7837(2005)02,03-0092-01

Current situation and development tendency of thermal spraying materials in China

YU Yue-guang(于月光)

(Beijing General Research Institute of Mining & Metallurgy, Beijing 100044, China)

Abstract: The current situations of thermal spraying materials in China are described in this paper. The thermal spraying technology in China has a great progress over tens of years. More than one hundred varieties of material products serve thermal spraying producing now. They belong to three kinds, powders, wires and rods. Technologies for producing alloy, ceramic and composite powders, alloy and cored wires, and oxide ceramic rods are applied to large-scale production. Many research and development works on advanced materials for thermal spraying are carrying out recent years. They show that the general tendencies of thermal spraying materials in China are composite or low-impurity component, ultrafine or nanosized microstructure, high properties, and specialized and systematized applications. Thermal spraying materials have great prospects with the development of saving society in China.

Key words: thermal spraying; coatings; materials

Received date: 2005 - 10 - 03

Biography: YU Yue-guang(born in 1965), Professor, Doctor.