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Plasma Surface Metallurgy of Ceramic Surface

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Gradient metal film on ceramic surface have very important application prospects in the material engineering development. This article introduce the research achievements in the surface alloying by the Xu-Tec process on ceramic materials. In addition, the experimental device, processing procedure, and technological parameters of ceramization and metallization are described. Their mechanical properties of the formed surface ceramic and metal layer, such as surface hardness, wear and abrasive resistances, and adhesion enhancement, are presented.

Keywords

Xu-Tec

ceramic surface

Gradient metal film