

DEVELOPMENT OF THE OPTIMAL COMPOSITION OF THE ALLOYING MIXTURE FOR SURFACE BORATION OF CAST PARTS

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ABSTRACT

This work is devoted to obtaining the optimal composition of an alloying mixture based on boron carbide, titanium, and marshalite, intended for surface alloying of steel castings. The developed mixture makes it possible to obtain a borated wear-resistant coating with a thickness of up to 3 mm.

KEYWORDS: *Wear Resistance, Abrasive Particle, Alloying Mixture, Optimization, Boron Carbide, Titanium Powder, Surface Boration, Conjugate Surface, Excavator Chassis, Expanded Polystyrene Gasified Model, Sand-Clay Form.*

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