

Buivolov Vyacheslav Ivanovych

The theme of the master's thesis: Production of bimetallic castings based on aluminum alloy.

ABSTRACT

Thesis: 57 pages, 14 figures, 18 tables, 25 sources.

The Purpose - creation and research of bimetallic composite materials based on aluminum and waste from metal processing.

The object of research - the process of production of bimetallic blanks steel-aluminum and steel-bronze.

Subject of research: Metal chips, mechanical properties of the resulting blanks, the relationship between the structure and properties of the resulting composites.

Research methods - metallographic.

A bimetallic composite based on aluminum with the addition of metal chips was obtained. The microstructure and mechanical properties of the obtained composites were investigated. The relationship between the structure and properties of the obtained.

BIMETALLIC BILLET ALUMINUM-STEEL, BIMETALLIC BILLET ALUMINUM-BRONZE, COMPOSITE ALLOY, ALITIZATION, METAL CHIPS, REINFORCEMENT.