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Theme of the master's thesis: "Improvement of technology of secondary aluminum alloys production"

ABSTRACT

Master's thesis: 69 p., 19 tables, 12 figures, 21 sources

Purpose - to investigate the effect of refining on the properties of the initial aluminum scrap

Object of research - change of chemical composition and mechanical properties of secondary aluminum alloy

Subject of research - chemical analysis of alloys

Research methods:

- chemical analysis (Expert 3L);
- hardness measurement by Brinell method (TSH-2M);
- uniaxial tensile test (MR-100).

The influence of the amount of refining additive on the change of chemical composition and mechanical properties of secondary aluminum alloy was studied. The optimal amount of refining additive for obtaining a secondary aluminum alloy with the required mechanical properties is established. The recommendation on refining of secondary aluminum is developed.

METAL SCRAP, DURALUMIN, CHLORIDE NITRATE, AC7, D16,
REFINING, REFINING ADDITIVE