

ABSTRACT

The foundry complex of the machine-building plant with the development of technologies for the production of aluminum castings using various methods of casting"

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Object of work - development of technology of production of castings "Frame side " weighing 5,2 kg of aluminium grade AK7 by casting technology in sand-clay molds and "Brace" weighing 0.03 kg of aluminium grade AK7 by casting technology on the models that are heated.

The subject of work is the development of foundry technology, organization of foundry shop.

The results of the work - developed technologies for the production of steel castings, the technical design of the foundry and its equipment.

The results of the work can be recommended for implementation in the production of castings from iron-carbon alloys in the conditions of mass production.

The field of use is mechanical engineering. The diploma project also provides basic calculations of organizational and economic factors, safety and health and business project.

Keywords: BRACE, FRAME, WORKSHOP, CASTING, DETAIL, CASTING, MIXTURE