

## ABSTRACT

Diploma project of the “Bachelor” degree: « The factory for the production of pharmaceutical glass» / Igor Sikorsky Kyiv Polytechnic Institute; Supervisor: Pylypenko I.V.; Student: Zagorodniuk N.A.. XM–41 group.

Explanatory note: 107 pages, 2 figures, 39 tables, 10 sources, 1 annex.

Graphic part: 6 sheets of A1 format.

The object of development – a factory for the production of pharmaceutical glass containers.

The purpose of the work – develop a factory for the production of pharmaceutical glass containers in accordance with the individual task and innovative world trends.

The project of the factory for the production of pharmaceutical glass containers with a total productivity of 100 million units per year was developed. The draft provides for the production of a charge in the form of a mixture of raw materials. Appropriate technical equipment is selected and appropriate technological units are designed.

For making glass, a designed electric bath is an electric stove of direct action with a cold upper part. In direct-action furnaces, heat is released directly in glass. Molybdenum electrodes are used, which can withstand significant heat fluctuations.

For the formation of a drop of glass used machines of type IS. Annealing of products takes place in an oven with installed heating elements.

Keywords:

Pharmaceutical packaging, factory, electric furnace resistance, technology, calculation of composition of the charge, material balance, thermal balance.