

Summary
Coursework
Of course "Thermal foundry"
Student groups FL-31
Studenca Bogdan
On "Fuel Drier Vertical conveyor"

In the course work was designed drier fuel with a vertical conveyor. Course work contained 26 pages of printed text and 1st drawings A1.

Explanatory note consists of an introduction, six chapters, list of references and contains two pictures.

In the introduction disclosed the essence of fuel dryers with vertical conveyor.

The first section of the explanatory note calculation is burning fuel, which includes calculation of fuel composition, heat combustion air flow calculation, calculate the mass of dry gases, water vapor mass calculation and determination of moisture content of drying agent at the door of the dryer.

In the second chapter Calculation of the main dimensions of the working space of the dryer, which includes a calculation of shelving units, sizes sushulnoyi plates, number of bars on the stove. Calculating the size of the external cameras and two sketches: vertical and overhead conveyor dried drying stack of plates.

In the third section, select lining and dried frame - layered sovelitovi plate.

The fourth section was defined thermal calculation dried, which includes the calculation of heat loss during drying, heat transfer coefficient and thermal, gas movement regime - turbulent. In this section, the construction disclosed id - chart with $t_{poch} = 390 \text{ }^{\circ}\text{S}$ and $t_{K.B.} = 150 \text{ }^{\circ}\text{C}$.

The fifth section is intended povitreprovody gas and includes a calculation of the chimney diameter $D1 = 0,3 \text{ (m)}$, diameter pipes leading to the cyclone $D2 = 0,104 \text{ (m)}$ and the diameter pipes for cold air $D3 = 0,121 \text{ (m)}$.

The sixth section includes a selection of the cyclone, after the calculations - choose the brand cyclone TL-15- 250 with a diameter of 250 mm type III.

Keywords: DYING FUEL VERTICAL CONVEYOR, PIVOT CHART