

**SUMMARY**  
**course work in discipline**  
**"Special metallurgy engineering"**  
**student of FS-21**  
**Suhopleschenko Vladislav Konstantinovich**  
**on "The development of production technology of casting parts "gear" by**  
**casting for models that gasification"**

In the course work presented manufacturing techniques of casting parts "gear" by casting for models that gasification 10H18N9T steel, capacity 2000 pieces per year.

Course project contained 25 pages of printed text and drawings has 3 — "gear wheel", "Press-form" and "form to collect". explanatory note consists of an introduction, four chapters, conclusion, list of references and contains two picture

The introduction essence of the method of casting for models that gasification and its prospects.

The first part is devoted to the explanatory note gas production technology models. In this part of polistirol and described its properties and production models in mass production.

In the second part are constructive and technological calculations, which include calculation of the duration of filling forms, calculation and gate systems costing styrofoam.

In the third part of the explanatory note submitted casting manufacturing technology, which includes pre-processing suspension polystyrene manufacturing technology models, assembly models, press forms design, preparation of models of the formation and furnace for melting metal.

In the fourth section, the calculation of technical and economic indicators that show the efficiency of metal. In conclusion to the course of these advantages and disadvantages of this method of casting that allow management to assess its use.

**Keywords:** 10H18N9T STEEL, CASTING FOR MODELS THAT GASIFICATION, MOLDS, SHAPES IN THE COLLECTION, THE WHEEL GEAR