

CONCLUSIONS

In this work the influence of the main technical parameters of the process of free samples of iron deposition and system iron - carbon. The research can make some conclusions:

- use oil significantly affect the process of free drafts only if small briquette height;

- increase of graphite from 0.8 to 4.0% leads to a decrease in the density of free materials after deposition, due to the increase in cementite content, which adversely affects the process of plastic deformation during the deposition of free samples;

- the influence of altitude on seal pressed pellets showed that the increase in height from 1.0 to 3.0 mm leads to a decrease in the density of free material after deposition. That explains the presence of higher sample zones are "nepropresovky" that degrade plastic deformation of the material during the free deposition;

- studies have shown that free deposition allow a system of iron powder materials - carbon porosity of 1.5 - 3.0%, which corresponds to a construction detail heavy duty use.