

## **ABSTRACT**

In a report from pre-diploma practice literary data over are brought from ESR of steel in setting of VIII- 149. A report from pre-diploma practice is expounded on the 29 pages of the printed text. A report consists of entry, two divisions, conclusions, list of references and contains 1 picture.

In an entry it is reasonable actuality of select theme of researches, described aim of pre-diploma practice and task. The first part of report is sanctified to the analysis of existent methods of melting of steel and ESR. The brought flowsheets over of the electro-slag smelting and affinage. To the second part of report pre-product is driven, equipment for the electro-slag remelting.

Re-fuse an ESR technological plasticity, the anisotropy of properties, to less amount and size of nonmetallics, diminishes. Quality of surface of bar, his closeness and structure, gets better also.

**KEYWORDS:** ESR, steel, bar, affinage