

ABSTRACT

The work contains: 68 pages, 23 figures, 11 tables, 28 literature sources

The purpose of the research: to establish the possibility of estimating the level of defectiveness of steel shot by the method of measuring the pycnometric density and changing the volume of the fraction-liquid system during vacuum evacuation.

Methods of the research: metallography, quantitative metallography, pycnometric density measurement, measurement of volume change during evacuation.

Object of the research: defects of the steel shot.

Subject of the research: the influence of steel shot defects on the pycnometric density and the change in the volume of the fraction-liquid system during vacuum evacuation.

Practical significance: development of the method of express analysis of the steel shot quality, which can be included in the production process.

Key words: CAST STEEL SHOT, PYCNOMETRIC DENSITY, DEFECTOSCOPY, CRACKS.