

1. **DIBROV I.**

TWELFTH CONGRESS OF RUSSIAN FOUNDRYMEN, FIFTH FORUM OF BRICS COUNTRIES, INTERNATIONAL EXHIBITION "CASTING - 2015", PRESENTATION OF "RUSSIAN FOUNDRY" CATALOGUE

TRIBUNE FOR CATALOGUE PARTICIPANT

Today the baton "Rostrum" take ZAO WA Kurgan "-modern and efficient production of steel abrasives and Monolith"-supplier of Shotblast and shot blasting equipment

2. **Belov V., Fadeev A., Petrovsky P., Pavlinich P., Alikin P., Kachalov A.** Some aspects of foundry molds application, made of non-metallic materials and produced basing on digital technologies.

Analyzed some aspects of usage graphite molds made of blanks machined on CNC machines. It was shown that these forms can be successfully used instead of the molds made of graphite powder molding compounds by compacting.

Key words: casting, mold, titanium, material, graphite, roughness, surface

3. **Moiseev D., Leushin I.** Technical variants of «oxygen process» high pressure die casting of aluminium alloys.

This paper reviews the general ways to reduce gas porosity in castings of the high pressure die casting: manufacturing method, improvement of the ventilation system (using the needle-filters), vacuum, blowing mold cavity with inert gases, using reactive gases. Offered a more effective technical scheme based on using the blowing of oxygen to reduce gas porosity in castings of the die casting.

Key words: high pressure die casting, reducing gas porosity in HPDC, special casting methods, pore-free process.

4. **Voronin YU.** Stage-by-stage definition of conditions of occurrence and liquidation of light gas bowls.

Light gas bowls on complexity of liquidation occupy high enough level. It is caused by an implicit place of allocation of steam of a moisture or nitrogen connections. The author has shown receptions of fast definition of versions of light bowls, stages of their formation and liquidation, using thus difficult enough and responsible moulding. Simplicity of revealing and liquidation of defects will allow a number of the foundry enterprises to get rid of light gas bowls on castings.

Key words: casting, technology, defects, bowls, the analysis, penetration, light, narrow, local, quality, marriage decrease, steam formation, nitrogenous connections.

5. **Chernyshov E., Evlampiev A., Korolev A., Kuznetcov S., Ivanova L.** On the issue of formation of gas defects of steel casting using modern methods of manufacture of molds and cores.

The modern methods of making molds and cores, the range of applications and features of the formation of gas defects of steel casting. The analysis of the reasons for their education and prevention. Attention is paid to the quality of the training of young specialists.

Key words: methods of formation, shape, core, steel casting, gas defects, problems, desing, modernizatsiya.

6. **Yusipov R., Kozlov A., Abakumov YU., Zujkov S., Dem-janov E., Kalchenko V.** Resizing the rod fragment shape casting.

The developed method of direct measurement of the changes in dimensions of the rod fragment shape casting while thermometerfree rod and shapes in their cross sections in the conditions corresponding to the real process.

Presents the temperature distribution over the cross section of the mold wall, casting and rod and sizing of the rod on the stages of the annealing, cooling the molds before pouring, during the pouring and solidification of the casting, during the period of cooling of the casting. Presents the results of measurements of changes in the size of the rod at different temperatures of the rod before pouring.

Key words: molding on the melted models, a casting mold, a core, casting, change of the size, temperature measurement.