Evaluation of Selected Properties of Steel 100Cr6 at Different Ways of Heat Treatment

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This study discusses the impact of heat treatment conditions on the final properties of quenched and low-tempered bearing components in terms of microstructure, hardness and impact strength. Technological process of heat treatment must be done rationally and in addition to the required hardness must also ensure the dimensional precision of bearings components. Different austenitization conditions have a great influence on the phenomena which takes place in the material during the austenitizing. Heat treatment of rolling bearing components is an indispensable part of their production and it is also an unavoidable item of the price calculation of bearings. The aim of a competitive struggle for the rolling bearings market is an offer of the best quality bearings (dimensional accuracy, stability and durability) at a reasonable price.

Keywords: austenitizing, bearing steel, quenching, heat treatment

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References


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