

A Method for Assessment of Steels Grindability

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Abstract

The paper presents a method for assessing the grindability of steels based on a simple setup for grinding a specimen with constant normal grinding force and recording the variation of infeed rate. Grindability of several grades of steel had been analyzed by using the dependences between the variations of infeed rate with the contact pressure. For the comprehensive evaluation of grindability, the influence of factors like hardness, alloying elements content, carbon, heat treatment, had been considered. The method may be standardized and using adequate conditions can be used for grading steels from the grindability point of view.