

Method for Determining the Tribological Properties of the Cutting Fluid

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Application of cutting fluids is one of the most widely accepted methods of increasing not only the efficiency of machining but also the quality management of the working surface that is used in industry. The cutting fluid market is large enough, and different manufacturers produce their own cutting fluids in several product lines which differ as to their chemical composition and their properties. When creating a cutting fluid, the manufacturer is particularly interested in the study of its individual properties as well as studying the effect of various chemical components on the final properties of the cutting fluid. Different methods are used to study various properties of cutting fluids. This article presents the method for the study of the tribological properties of cutting fluids. This method has been applied while comparing 5 different cutting fluids.

Keywords: Machining, Cuttingfluid, Orthogonalcutting

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