



VILLARES METALS

Machinability of commercial steels and new alloys

Motivation

Alloying elements change different characteristics of the basic material. One of those is the way that machining happens on this material. The motivation of this work is to evaluate the machinability of commercial steels with the addition of Titanium and Nitrogen as alloying elements.

Objective

To evaluate the influence of the company's commercial steel alloy modifications, compared to the material's machinability with the addition of alloy elements.

Approach

Experiments were carried out comparing the performance of the drilling process by MQL and flood, evaluating deviations in shape, surface finish, tool wear and chip morphology



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