



Cutting Fluid Analysis to Aerospace Industry

Motivation

Cutting fluids are important elements in the machining process, sometimes considered as another tool. Therefore, there must be rules and patterns to regulate the fluids. What builds a motivation for developing a method for testing cutting fluids.

Objective

To evaluate cutting fluids that could be used by the company and its suppliers.

Approach

Execute experiments to investigate the cutting tools characteristics – microstructure and mechanical properties and coating analysis, tool wear assessment – tool life experiments and wear mechanisms, and exploratory machining experiments – surface finishing, cutting force and chip characteristics.

Product evaluation

