

Abstract Details

Title: Study on the emulsion stability of a vegetable oil with different surfactants

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Abstract: Cutting fluids are very important for the manufacturing industry. Cutting fluids are formulated from mineral oils and are carcinogenic in nature. They have negative impact on health of worker and on the environment. Owing to the problems posed by these cutting fluids, a need has been felt for using cutting fluids which are environment friendly and have no toxic effect on the environment. For this proper oil selection and surfactant selection is important. In order to solve this problem a vegetable oil has been selected and in order to make it completely soluble in water it has been tested with different surfactants.

Keywords: emulsion, vegetable, surfactant, environment, disposal