

Title (en)

USE OF A COOLING LUBRICANT EMULSION FOR CHIP-FORMING METALWORKING

Title (de)

VERWENDUNG EINER KÜHLSCHMIERSTOFFEMULSION ZUR SPANABHEBENDEN METALLBEARBEITUNG

Title (fr)

UTILISATION D'UN REFRIGERANT LUBRIFIANT SOUS FORME D'EMULSION POUR L'USINAGE DE METAUX PAR ENLEVEMENT DES COPEAUX

Publication

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Application

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Priority

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Abstract (en)

[origin: US6245723B1] A process for preparing a stable cooling lubricant emulsion for use in the cutting of metals involves the steps of (a) forming a mixture having an oil component, water and an emulsifier with the oil component being emulsified in the water, then (b) dispersing into 100 parts by weight of the mixture by means of high shear from about 1 to about 14 parts by weight of a natural, water-immiscible cutting oil. The stable oil-in-water cooling lubricant emulsion formed has at least 50 percent of the cutting oil present in the form of particles having a diameter of 0.5 to 8 µm. The cooling lubricant emulsion formed may be used in an extended range of applications.

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IPC 8 full level

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CPC (source: EP US)

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