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

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Application

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Abstract (en)

[origin: DE19703085A1] The invention relates to a method for the production of a cooling lubricant emulsion mixed with water, used for metal cutting, whereby a) 2-15 parts by weight of a water-miscible concentrate of a coolling lubricant emulsion are mixed with 98-85 parts by weight of water, so as to obtain a mixture comprising 100 parts by weight, and then b) one disperses 1-14 parts by weight of a non water-miscible native-based cutting oil are dispersed, with strong shearing action into mixture a). The cutting oil is preferably chosen from oxidation-stabilized fatty acid glycerides in the form of triesters with three fatty acids with 14-22 C-atoms per fatty acid, and oxidation-stabilized diesters with two fatty acids with 12-22 C-atoms per fatty acid. The invention further concerns a cooling lubricant emulsion that can be produced by this method, and its use for metal cutting.

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