

INDU-LUBE®

Indu-Lube® MS-3000 metalworking lubricant

INDU-LUBE® MS-3000 is an environmental friendly, vegetable based oil for cutting and moulding in steel and other metals. This oil is most frequently used with minimal-lubrication. By using Indu-Lube® MS-3000 with lubricating units as TP4 Microspray or P10/25 droplubricators You avoid disadvantages as emulsion on workpieces and machines, vapour, smell, cleaning and disposal of used emulsion.

Through more than 12 Years of developing, producing and distributing industrial lubricating systems, we have delivered Indu-Lube® MS bio-degradable, vegetable oil to the metalworking industries. Indu-Lube® MS-3000 is a high quality product developed and produced in Denmark.



INDU-LUBE® MS-3000

A vegetable based, bio-degradeable oil all free of additives. Its viscosity and excellent adhesive capability, ensures good lubrication, by reducing the heat-creating friction between tool and workpiece. The very modest consumption makes this oil most economical. MS-3000 is categorised as harmless.

Reg. nr. 869874 by Danish National Institute of Occupational Health.

Industrial sawing with INDU-LUBE® MS-3000 / TP4 Microspray-unit consume only 3-6 gr. of oil an hour

- Dry workpieces, chips and machine
- Prolonged tool lifetime
- Less cleaning of materials and machines
- Vegetable based cutting oil, no additives
- No inconvenience from smoke or smell
- No cleaning necessary prior to welding
- No emulsion with bacterias or fungicides
- No disposal of used emulsion

Use INDU-LUBE® lubrication system to ensure a better environment.

INDU-LUBE® MS-3000 IS DELIVERED IN CAN OR BARREL :

Can of 2.5 / 5 / 10 / 30 liter or barrel of 200 liter

Our program include :

TP-type microspray-units for minimal-lubrication, P-type drop-lubrication units, vegetable-based, hydrocarbon-based and 100% evaporating cutting oils. Danish agent and dealer of Flowdrill® frictional drills and cold forming tapping tools.

Evaporating lubricants for metalworking

Lubricants especially designed for sheet-metal appliances, i.e. punching, impressing, cold forming, drawing where lubricant remains are unwanted. Also suitable in sawing-machines. Eliminates the need of cleansing after production. Imported and distributed on request from our customers.

Application by brush, roll or Indu-Lube® units. Lubricants are applied without thinning, and their adhesive capabilities provide lubrication of 35-40 m² sheet metal per 1 liter.



Evaporating lubricants

MS-780

Special, evaporating lubricant for use in light applications as punching, impressing, cold forming, drawing etc. Also suitable for sawing in light aluminium-profiles, light cutting etc.

MS-780 is a lubricant which, after evaporation (30-60 min.), doesn't leave any remains on the workpieces. MS-780 is water-free and has no electrical conductivity. Harmless to painted and lacquered finish.

MS-28

Special, evaporating lubricant for use in demanding applications as punching, impressing, cold forming, drawing, drilling, tapping etc.

Evaporation time, depending on environment, approx. 2-3 days.

MS-28 doesn't leave any remains on the workpieces, is water-free and has no electrical conductivity. Harmless to painted and lacquered finish.

Technical Data													
Registr.-nr. Physical properties Use Drying time Characteristic CAS-Nr. Composition Contents	554557 (Indu-Lube® MS-780) Colourless fluid with slight smell of oil. Lubricant for use in metalworking. Approx.. 30-60 min., dependent on temperature. Not water-soluble, does not contain dangerous components 64742-48-9 Composition of long chained aliphates and special lubricating additives Aliphates C10-C12, Low-viscosity hydrocarbons (<7mm ² /sec at 40°C) Symbol: Xn - R-phrases: R65 (swallowing might result in lung damages) All components are ECOIN/EINECS listed												
Registr.-nr. Physical properties Use Drying time Characteristic CAS-Nr. Composition Contents	951528 (Indu-Lube® MS-28) Green, transparent fluid with slight smell of oil. Lubricant for use in metalworking. Approx.. 2-3 days, dependent on temperature. Not water-soluble. 64742-48-9 Preparation of long chained aliphatic hydrocarbons, chlorinated long-chained hydrocarbons and sulphur-containing EP-additives <table border="0"> <thead> <tr> <th>Dangerous components</th> <th>Concentr.</th> <th>Symbol</th> <th>R-phrases</th> </tr> </thead> <tbody> <tr> <td>Aliphates C10-C12</td> <td>65-68</td> <td>Xn</td> <td>65</td> </tr> <tr> <td>Phosphate ester potassium salt</td> <td>0,8-1,2</td> <td>Xi</td> <td>36/38</td> </tr> </tbody> </table> All components are ECOIN/EINECS listed	Dangerous components	Concentr.	Symbol	R-phrases	Aliphates C10-C12	65-68	Xn	65	Phosphate ester potassium salt	0,8-1,2	Xi	36/38
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	Always use lubricants according to local and global safety regulations. Require our Safety Data Sheet for further information.												

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