

Technical Information

INDUOIL® HL 40

TECHNICAL DATA

› Colour	colourless to yellowish
› Odour	characteristic
› Viscosity at 40 °C	37 mm ² /s
› Density at 20 °C	0.92 g/cm ³
› Pour point	not specified
› Flash point	> 200 °C
› Aromatics content	< 0.05

WASTE KEY

- › 13 02 07

WATER HAZARD CLASS

- › WGK 2

THIS HIGH PERFORMANCE OIL IS

- › PVB/PCT-free
- › phenol-free
- › chlorine-free
- › silicone-free
- › heavy metal-free (such as barium, zinc, molybdenum, etc.)
- › toxicologically harmless

PRODUCT DESCRIPTION

INDUOIL® HL 40 is a mid-viscosity, vegetable-based cutting and deep drawing oil.

USE

For light duty non-cutting shaping operations such as stamping, bending, shaping, drawing, roll forming, but also for cutting operations such as milling, turning, drilling, sawing and tapping.

MATERIAL

Non-ferrous metals (Al, Cu)
 Non-ferrous heavy metals
 Alloyed steels (up to STK60)
 Electrical contact materials
 GG, GGG

APPLICATION

Undiluted by spraying, rolling, daubing or in the drop procedure.
 Not suitable for cyclic or mechanical lubrication!

RECOMMENDATION

For optimal, non-contact and wear-free application, we recommend the mist-free **INDUTECH® MS** minimum quantity cooling lubrication systems with dual air jacket.

ADVANTAGES

INDUOIL® HL 40 has the following advantages for minimum quantity lubrication:

- › minimum residues
- › dry work pieces, machines and chips
- › no disposal of the cooling lubricant
- › improvement of tool life

DEGREASING OPTIONS

Minimum residues when used as intended. For further machining (painting, powder coating etc.), grease can be removed by means of spray, ultrasonic or immersion cleaning using efficient neutral or alkaline cleaners as well as most organic solvents.

This information is based on our current knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship. In case of doubt, practical tests are required on site depending on the requirement profile.