

Technical Information

INDUOIL® HL 4

TECHNICAL DATA

Odour almost odourless
Viscosity at 40 °C 2.5 mm²/s

Density at 20 °C 0.79 g/cm³
Pour point none specified

> Flash point 105 °C

WATER HAZARD CLASS

MCK 1

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 4** is a low-residue stamping, cutting and shaping cooling lubricant with excellent lubricating properties.

USE

For light-duty non-machining shaping operations such as stamping, shaping, bending, drawing, profile rolling, tapering, deep drawing, but also for chip-cutting machining such as turning, milling, drilling, sawing and thread cutting, as well as during internal cooling for minimum quantity cooling lubrication.

MATERIAL

Non-ferrous metals (AI)

Non-alloy and alloy steels (ST, V2A)

Electrical contact materials

Wooden materials

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 **INDU**TEC® **MS** minimum quantity cooling lubrication systems with dual air jacket as well as the **INDU**TEC® **MS** systems for internal cooling.

ADVANTAGES

INDUOIL® HL 4 has the following advantages for minimum quantity lubrication:

- minimal residues
- › dry work pieces, machines and chips
- no disposal of the cooling lubricant
- > improvement of tool life
- practically odourless

DEGREASING OPTIONS

Evaporates almost residue-free when used as intended.

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.