

Product description: Low-residue stamping, cutting and shaping coolant with excellent lubricating properties.

Application: During light-duty shaping operations, such as stamping, bending, shaping, drawing, deep drawing and tapering but also during metal-cutting machining such as milling, turning, drilling, sawing and threading, and during internal cooling for MQL.

Suitable materials: Non-ferrous metals (Al), non-ferrous heavy metals, non-alloy/alloy steels (ST, V2A), electric contact materials, wooden materials

Environmental compatibility: AS 13 02 06; WGK 1

Application: Non-diluted by spraying, rolling, daubing, shaping or in drop lubrication.
Not suitable for cyclic or mechanical lubrication!

Recommendation: For optimum, inductive and wear-free applications, we recommend mist-free [INDUTECH® MS Minimum Quantity Cooling and Lubricating systems](#) with a dual air jacket and the [INDUTECH® MS Internal Cooling systems](#).

Advantages: INDUOIL® HL 4 offers the following benefits in minimum quantity lubrication:

- minimal residues
- dry work pieces, machinery and chippings
- no disposal of the cooling lubricant required
- improvement to tool life
- improvement in performance
- virtually odour-neutral

Degreasing options: Evaporates leaving virtually no residue when used as intended.

Colour: colourless

Odour: odourless or weak odour

Viscosity at 40°C: 2.5mm²/s

Density at 20°C: 790kg/m³

Pour point: < - 20°C

Flash point: 105°C

Relative evaporation rate: approx. 3,900

Aromatic compound content: < 0,1 %

This high performance oil is

- free of PVB/PCT
 - free of phenol
 - free of chlorine
 - free of silicon
 - free of heavy metals
 - non-toxic
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