

Technical information sheet

XONOL HDF

**Metalworking cooling and lubricating fluid, free of mineral oil, not water-miscible.
Suitable for minimum quantity cooling lubrication (MQCL)**

Product description:

XONOL HDF is a synthetic cooling lubricant with chemically active lubricating substances and highly effective lubricating film formers. The product is suitable for all materials

Application area:

Machining of alloyed steels, Cr-Ni steels, titanium, aluminium alloys, NE and Cu alloys.
Non-cutting machining of Cr-Ni, aluminium and Cu alloys.

Properties:

Optimum cooling and lubricating effect especially with carbide tools and improvement of the surface quality. The product shows very good wetting properties. With minimum quantity lubrication an additional evaporative cooling is generated. **XONOL HDF** offers a high pressure capacity and an optimal price/performance ratio.

XONOL HDF evaporates residue-free above 360 °C.

XONOL HDF is chlorine-free, physiologically harmless and not a hazardous substance in terms of the currently valid German Ordinance on Hazardous Substances (GefStoffV). It is free of silicones, aromatics, PCB, PCT and PCDF.

Loss lubrication in the application area, thus no disposal problems.

Other advantages:

- Excellent wetting and cooling effect
- Low evaporation loss
- Ecologically safe
- Easily separated from water
- Odourless
- Good skin tolerance

Technical application notes:

XONOL HDF is preferably sprayed onto the parts or the tool in a wafer-thin layer without mist using minimal quantity spray equipment. This achieves **an above-average cutting performance with minimum dosage**.

Physical technical data:

Appearance	light / blue	
Odour:	mild, pleasant	
Density: (20 °C)	approx. 0.866 g/cm ³	DIN 51 757
Viscosity: (20 °C)	approx. 63 mm ² /s	DIN 51 562
Flash point:	> 195 °C	DIN 51 376

Our information on processing and application options within the scope of our technical advice and other information is given to the best of our knowledge, but is non-binding. It does not release you from your own examination of the properties guaranteed by us for intended processes and purposes. Our products are manufactured in accordance with QS ISO 9001:2015.

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