

Eni aquamet LMK - AL

Eni aquamet LMK - AL is a mineral oil-containing, water-emulsifiable cooling lubricant concentrate that was specially developed for aluminum processing. Particularly selected additives and inhibitors enable the processing of common aluminum alloys, as well as non-ferrous metals. In addition, Eni aquamet LMK - AL is suitable for grinding and general machining processes of alloyed and unalloyed steels and cast iron

Physical properties (typical values):

Eni aquamet LMK - AL		Unit	Test procedure
Total oil content	ca. 30	%	
Viscosity (20°C)	ca.200	mm ² /s	DIN 51 562
pH-value (5%)	9,7		DIN 51369
Corrosion test (5%)	0-0	Korr.- Grad	DIN 51360 T.2

Quality features:

- Boron-free, amine-containing cooling lubricant
- free from formaldehyde releasers
- polar lubricity improvers enable good cutting performance
- very good technical. Stability and therefore long emulsion life
- stable and low-foam emulsion with preparation water from 5°dH to 30°dH
- Hard water stable up to approx. 150°dh

Possible uses:

Eni aquamet LMK - AL is a water-emulsifiable cooling lubricant concentrate for general machining such as turning, milling, drilling and sawing of aluminum (e.g. 2024,6061,6082 and 7075). Due to a special and high-quality emulsifier system, state-of-the-art technology and excellent lubricating components, Eni aquamet LMK - AL can also be used in proportions on non-ferrous metals and alloy steels. The product is used successfully in soft and hard preparation water.

Recommended use concentrations depending on application and materials:

- General machining from 7.0%
- Medium and heavy cutting from 8%
- Grinding from 5%
- Refractometer factor 1.3

notice:

The product complies with the requirements of TRGS 611 Section 4. For use, please observe the applicable VDI guidelines 3035 and 3397 (1-3) as well as the specifications of TRGS 611 Section 5. When mixing, always add the concentrate to the water provided; a more homogeneous emulsion can be achieved by using mixing devices. In order to maintain the functionality of the cooling lubricant concentrate, frost-free storage is necessary.

The product is a water-polluting liquid.

Occupational health precautions must be taken into account in accordance with GefStoffV §15, §16 and Annex V. DGUV rule 109-003 - Activities with cooling lubricants (formerly: BGR/GUV-R 143) - must be applied for safe handling.

Further information can be obtained from our application technology department.

Find out about the seminar offering on the topic of cooling lubricants.