



Eni aquamet LMK - CO2 REDUCTION

Eni aquamet LMK-CO2 REDUCTION was developed based on a special recycled mineral oil with a reduced CO2 footprint. Compared to a conventionally formulated cooling lubricant concentrate with the same mineral oil content, the CO2 footprint is reduced by approx. 596 kg CO2 per ton of cooling lubricant concentrate consumed. Due to a special and high-quality emulsifier system, modern technology and excellent lubricating components the product is versatile.

Physical properties (typical values):

Eni aquamet LMK-CO2 REDUCTION	Data	Unit	Test method
Mineral oil content	ca. 40	Gew%	
Density (15°C)	0,931	g/cm ³	DIN EN ISO 12185
Viscosity (20°C)	ca. 165	mm ² /s	DIN 51 562
pH-value (5%)	9,8 (decreases with use)		DIN 51369
Corrosion test (5%ig)	0-0	Corr.-grade	DIN 51360 T.2

Quality features:

- **Approval for use in medical devices:**

Passes cytotoxicity tests according to EN ISO 10993-1, EN ISO 10993-5, EN ISO 10993-12

- free of boric acid and formaldehyde deposits
- low-foam cooling lubricant emulsion with selected EP additives
- very good wetting and rinsing effect, highly effective corrosion protection
- corresponds to TRGS 611
- long service life thanks to permanent buffering, extraordinary pH value stability
- Observation of the latest occupational health findings

Possible field of application:

Eni aquamet LMK-CO2 REDUCTION is a universal cooling lubricant for all medium-heavy and heavy-duty machining work on cast iron, alloyed, unalloyed steels and aluminum.

Recommended use concentrations:

- General processing operations: from 6%
- Difficult machining operations depending on requirements: from 8 %
- Refractometer factor: 1,0

Details:

The product complies with the requirements of TRGS 611 Section 4. For application, please observe the applicable VDI guidelines 3035 and 3397 (1-3) as well as the provisions of TRGS 611 Section 6. 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 considered in accordance with GefStoffV §15, §16 and Annex V. DGuv rule 109-003 – Activities with cooling lubricants (previously/GUV-R 143) – must be applied for safe handling.