



Eni aquamet LMK - AL 517

Eni aquamet LMK - AL 517 is a water soluble cooling lubricant, developed on a modern additive and inhibitor combination.

Characteristics (typical figures):

Eni aquamet LMK - AL 517		Unit	Test method
Total oil content	45	wt%	
Density (15 °C)	956	kg/m ³	DIN 51 757
Viscosity (20°C)	ca.200	mm ² /s	DIN 51 562
pH value (5%)	9,1		DIN 51369
Corrosion test (7%)	0-0	Corr.-grade	DIN 51360 T.2

Properties and Performance:

- free from boric acid and formaldehyde depot substances
- low foaming cooling lubricant emulsion with selected EP additives
- very good wetting and rinsing effect, highly effective corrosion protection
- meets the TRGS 611
- long service times due to permanent buffering, extraordinary pH stability
- observation of the latest medical experience

Applications:

Eni aquamet LMK - AL 517 is suitable for the machining of different aluminium alloys, such as 2024, 5083, 6061, 6082, 7075 and 7068 but also for the general up to severe machining of steel and highly alloyed steels.

Recommended application concentration:

- general machining processes : 6,0% +/- 1%
- difficult machining operations according to the requirements: 7,0% - 10 %

Refractometer factor: 1,0

Indications:

The product meets the requirements of the TRGS 611 Section 4.

Please observe the valid VDI Guidelines 3035 and 3397 (1-3) as well as the Regulations of the TRGS 611 Section 5 for the application. When mixing always give the concentrate into the water, a more homogeneous emulsion is achievable by using an automatic mixing unit. A frost-free storage is necessary to maintain the functionality of the cooling lubricant concentrate.

The product is a water hazardous liquid.

The occupational medical precautions have to be observed according to GefStoffV (Ordinance on Hazardous Substances) §15, §16 and annex V.

The BG (professional society) regulation 143 - operations with cooling lubricants - has to be observed for a safety operation.

For specific technical questions please contact our technical department. Get information in reference to our training seminar about the subject cooling lubricants.