

# AL-M High-Performance Grease



**Long-term lubricant with MoS<sub>2</sub> | strong adhesion and high pressure resistance**

WEICON AL-M permanently reduces friction and wear and is suited for rolling and slide bearings, joints, levers, sliding guides, spindles, camshafts, spline shafts, springs, open gears, worm gears, and at all sliding speeds permitted for grease lubrication.

## Technical Data

Short description	KF 2 K -20	
Consistency classification	DIN 51818	NLGI grade 2
Base	Li/Ca soap / MoS <sub>2</sub> / mineral oil	
Colour	black	
Density	(+20°C) DIN 51757	0,92 g/cm <sup>3</sup>
Silicone-free	yes	
Four ball weld test property load	DIN 51350	3.200 N
Four ball weld test weld load	DIN 51350	3.000 N
Four ball weld test calotte value	DIN 51350 (1min/1000N)	0,5 mm
Rotation speed parameter	400	
Cone penetration	DIN ISO 2137	265 - 295 1/10 mm
Water resistance	DIN 51807	1 - 90
Heat capacity	DIN EN ISO 22007-4	1,766 J/(g·K)
Thermal conductivity	0,491 W/m·K	
Dielectric strength	DIN EN 60243-1 (20°C)	11,5 kV/mm
Dripping point	IP 396	> 170 °C
Kinematic viscosity (40 °C)	DIN 51 562	160 mm <sup>2</sup> /s
Kinematic viscosity (+100 °C)	DIN 51 562	15 mm <sup>2</sup> /s
EMCOR-corrosion test	DIN 51 802	0 / 0
Temperature conductivity	0,303 mm <sup>2</sup> /s	
Temperature resistance	-20°C to +120°C	
Shelf life	24 mon.	

## Approvals / Guidelines

ISSA Code	53.052.01/02
IMPA Code	450435/36

## Lubricating and Multifunctional Oils

### Surface pre-treatment

First clean the surface to be lubricated with WEICON Cleaner S, depending on the degree of soiling. If screws have already been used, process with the wire brush and clean with WEICON Cleaner S.

### Processing

Apply AL-M evenly.

### Storage

Store in tightly closed original container. Do not store with oxidising agents. Keep container tightly closed and store in a cool, well-ventilated area. Recommended storage temperature: Room temperature.

### Instructions for use

When using WEICON products, the physical, safety-related, toxicological and ecological data and regulations in our EC safety data sheets ([www.weicon.com](http://www.weicon.com)) must be observed.

### Available sizes

- 10016733 AL-M High-Performance Grease, 0,4 kg, black
- 10016735 AL-M High-Performance Grease, 1 kg, black
- 10016737 AL-M High-Performance Grease, 5 kg, black
- 10016739 AL-M High-Performance Grease, 25 kg, black
- 10034482 AL-M High-Performance Grease, 120 g, black
- 10035437 AL-M High-Performance Grease, 0,5 kg, black

### Conversion table

(°C x 1.8) + 32 = °F	Nm x 8.851 = lb·in
mm/25.4 = inch	Nm x 0.738 = lb·ft
µm/25.4 = mil	Nm x 141.62 = oz·in
N x 0.225 = lb	mPa·s = cP
N/mm <sup>2</sup> x 145 = psi	N/cm x 0.571 = lb/in
MPa x 145 = psi	kV/mm x 25.4 = V/mil

Note  
The specifications and recommendations given in this technical data sheet must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility, this information is provided without any obligation. We do guarantee the continuously high quality of our products. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the only responsibility for non-appropriate or other than specified applications.

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