

AL-M High-Performance Grease



Long-life grease with MoS₂ | high adhesive strength and high pressure resistance

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

Technical Data

Short description	DIN 51502	KF 2 K -20
Consistency classification	DIN 51818	NLGI grade 2
Base oil		Mineral oil
Base thickener		Li/Ca soap / MoS ₂
Colour		black
Density	(+20°C) DIN 51757	0,92 g/cm ³
Silicone-free		yes
Four ball weld test property load	DIN 51350	3.200 N
Four ball weld test weld load	DIN 51350	3.400 N
Four ball weld test calotte value	DIN 51350 (1min/1000N)	0,5 mm
Rotation speed parameter		400.000
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	DIN EN ISO 22007-4	0,491 W/m·K
Dielectric strength	DIN EN 60243-1 (20°C)	11,5 kV/mm
Dripping point	IP 396	> 170 °C
viscosity of base oil (40 °C)	DIN 51 562	160 mm ² /s
viscosity of base oil (+100 °C)	DIN 51 562	15 mm ² /s
EMCOR-corrosion test	DIN 51802 (distilled water)	0 / 0
Temperature conductivity		0,303 mm ² /s
Temperature resistance		-20 °C to +120 °C
Minimum shelf life	at room temperature	24 mon.

Approvals / Guidelines

ISSA Code		53.052.01/02
IMPA Code		450435/36
MIL-Spec	complies with	MIL-PRF-81329 MIL-PRF-46147

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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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) must be observed.

Application

The AL-M High-Performance Grease can be applied in the desired quantity to the component that you wish to lubricate with the Processing Spatula or the Contour Spatula Flexy. The content of the 400 g cartridges can be easily injected with a hand lever grease gun, e.g. in accordance with DIN 1283.

Storage

WEICON Allround Lubricants should be stored in a dry indoor environment at room temperature. Unopened containers can be stored at temperatures from +18 °C to +28 °C. Opened containers should be resealed airtight.

Accessories

10000147	Cleaner Spray S, 500 ml, transparent
10000347	Cleaner S, 5 L, colourless, transparent
10039119	Fast Cleaner, 500 ml, colourless, transparent
10055297	Industrial Cleaner, 500 ml
10010887	Processing Spatula, 1 PCE
10022562	Processing Spatula, 1 PCE
10010066	Contour Spatula Flexy, 1 PCE
10065455	Brush 35, long, Adhesive, 1 PCE

Recommended equipment

Grease gun	Grease gun
Lint-free cloth	

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

Conversion table

(°C x 1.8) + 32 = °F
mm/25.4 = inch
µm/25.4 = mil
N x 0.225 = lb
N/mm² x 145 = psi
MPa x 145 = psi

Nm x 8.851 = lb·in
Nm x 0.738 = lb·ft
Nm x 141.62 = oz·in
mPa·s = cP
N/cm x 0.571 = lb/in
kV/mm x 25.4 = V/mil

AL-M High-Performance Grease

High-Performance Greases Allround Lubricant

	AL-W High-Performance Grease	AL-M High-Performance Grease	AL-F High-Performance Grease	AL-T High-Performance Grease	AL-H High-Performance Grease	Silicone Grease	Silicone Grease HV
Rolling bearings	x	x	x	x	x		
Sliding bearings	x	x	x	x	x		
Chains	x						
Joints	x	x	x	x	x	x	x
Levers	x	x	x	x	x	x	x
Sliding guides	x	x	x	x	x	x	x
Linear guide systems				x	x	x	x
Spindles	x	x	x	x	x	x	x
Spline shafts	x	x	x	x			
Camshafts		x	x				
Springs		x					
Open gears	x	x	x				
Worm gears	x	x	x				
Cables	x						

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