

MOL Alubia AK 1EP

aluminium complex lubricating grease



MOL Alubia AK 1EP is a high performance lubricating grease produced from highly refined mineral oil and an aluminium complex thickener. It contains additives that reduce wear, inhibit oxidation and corrosion, as well as EP additives in order to ensure outstanding performance. Its water resistance, that has been improved significantly with polymers, allows its use in lubricated locations exposed to high loads in the presence of water. It is a soft, smooth, light brown coloured lubricating grease. The temperature range of application is between -25 °C and +140 °C, and in central lubrication systems up to +160 °C.

Application



Plain and roller bearings exposed to dynamic water loads

Heavy-duty sliding and rolling bearings

Low- and medium-duty enclosed gear drives

Axles, joints and accessories

Central supply lubrication systems

Features and benefits

Excellent dynamic water resistance

No significant change in consistency, even on exposure to a large volume of water, as the grease does not flow out from between the surfaces

Excellent load-carrying properties

Forms a continuous lubricating film that does not break even under dynamic load conditions
Contributes to increasing equipment lifetime

Exceptional thermal and oxidation stability

No hardening of lubricating grease at high temperatures and minimum oil separation
Cycle time of re-lubrication can be increased significantly

Good mechanical and storage stability

Retains stable structure under load, so no softening of lubricating grease and no running off the lubrication point
Long-term storage is possible without oil separation or lubricating grease hardening

Excellent wear protection

Reduced wear of contacting surfaces, even under varying operating conditions

Improved cold flow properties

Reliable operation even at low temperatures

Excellent pumpability

Applicable in central lubricating systems safely, even at varying temperatures

Excellent corrosion protection

Long-term protection against surface damage, even in the presence of moisture

Excellent yellow metal compatibility

Prevents premature deterioration of non-ferrous metal parts

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Specifications and approvals

NLGI grade: NLGI 1
DIN 51502: KP1N-25
ISO 6743-9: L-XBDHB 1

Properties

Properties	Typical values
Appearance	brown, homogenous
Base oil viscosity at 40 °C [mm ² /s]	200
Dropping point [°C]	240
Penetration after 60 strokes at 25 °C [0,1 mm]	320
Penetration change after 10000 strokes at 25 °C [0,1 mm]	10
Four ball test, weld load [N]	2400
Four ball test 60 min/400 N wear diameter [mm]	0,7
Four ball test 60 sec/1000 N wear diameter [mm]	1,2
Four ball test 60 sec/1900 N wear diameter [mm]	2,0
Oxidation stability at 100 h / 100 °C pressure drop [kPa]	30
Copper corrosion (100 °C, 24 h) [grade]	1
EMCOR test, distilled water [grade]	0
Dynamic water - resistance at 79 °C [mass %]	4
Oil separation (100 °C/24 h) [mass %]	10

The characteristics in table are typical values of the product and do not constitute a specification.

Storage and handling instructions

The product does not contain any toxic materials. During storage and handling the product usual health safety regulations for mineral oil products should be observed. It should be stored at covered place, free of direct sunlight and moisture.

In the original container under the recommended storage conditions: 24 months

Recommended storage temperature: -5°C - +45°C

Ordering information

Custom Tariff Number 27101999

SAP code and packaging:

13006016 MOL Alubia AK 1EP 8KG

8 kg steel pail (for order only)

13005359 MOL Alubia AK 1EP 180KG

213 l steel drum (for order only)

Order booking:

Please contact your local distributor or sales partner for ordering details.