

MOL Aluroll 1EP

metallurgical lubricating grease



A MOL Aluroll 1EP is a high performance lubricating grease produced from high viscosity highly refined base oil components and an aluminium complex thickener. It has beneficial evaporation and oxidation properties even at high temperatures. 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 for lubricating applications exposed to high loads in the presence of water. It is a soft, smooth, brown coloured lubricating grease. The temperature range of application is between -20 °C and +140 °C.

Application



Equipment exposed to dynamic water loads
Hydraulic cylinder bearings of roll stands
Heavy-duty sliding and rolling bearings
Individual and central supply lubrication systems

Features and benefits

Good tackiness, giving improved dynamic water resistance

Forms a continuous lubricating film which adheres strongly to the metal surface, even under loads in the presence of water
Reduced losses due to leakage, so re-lubrication cycle time is increased
Economical use

Exceptional thermal and oxidation stability

No hardening of lubricating grease at high temperatures and minimum oil separation
Increased operational safety, availability and lifetime of equipment

Excellent load-carrying properties

Forms a continuous lubricating film that does not break even under dynamic load conditions

Excellent pumpability

Applicable in central lubricating systems safely, even at varying temperatures

Excellent mechanical and storage stability

Retains stable structure under load, so no softening of lubricating grease and no running off the lubrication point
Lubricating grease can be stored for long a period without oil separation, hardening or softening

High base oil viscosity

Contributes to formation of a stable, continuous lubricating film, with increased load-carrying ability

Low resistance to chemicals

No softening and running off the lubrication point in slightly alkaline or acidic environment

Good corrosion protection

Long-term protection of steel and non-ferrous metal parts even in the presence of moisture

Specifications and approvals

NLGI grade: NLGI 1
DIN 51502: KP1N-20
ISO 6743-9: L-XBDHB 1

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Properties

Properties	Typical values
Appearance	brown, homogenous
Base oil viscosity at 40 °C [mm ² /s]	400
Dropping point [°C]	230
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
Timken OK load [Lb]	40
Oxidation stability at 100 h / 100 °C pressure drop [kPa]	30
Corrosion at 100 °C/ 24 h (steel)	pass
Copper corrosion (100 °C, 24 h) [grade]	1
EMCOR test, distilled water [grade]	0
Dynamic water - resistance at 79 °C [mass %]	4
Flow pressure at -20 °C [mbar]	1200

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:

13005353 MOL Aluroll 1EP 180KG

213 l steel drum (for order only)

Order booking:

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