

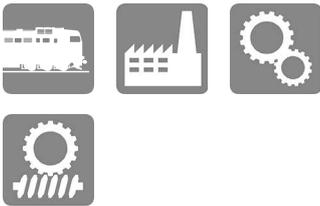
MOL Alugear 1EPM

gear lubricating grease



MOL Alugear 1EPM is a high performance lubricating grease produced from highly refined mineral and synthetic base oil components and an aluminium complex thickener, that enable beneficial evaporation and oxidation properties even at high temperatures. It contains additives that reduce wear, inhibit oxidation and corrosion, as well as EP additives and molybdenum disulphide in order to ensure outstanding performance. Its solid additive content allows higher loads in lubricated contacts. Its special field of application is railway drive gears exposed to high loads. It is a soft, smooth, black coloured lubricating grease. The temperature range of application is between -30 °C and +140 °C.

Application



Equipment subject to high risk of seizure
Enclosed gear drives of locomotives
Heavy-duty enclosed gears
Power transmission equipment
Individual lubrication systems

Features and benefits

High performance solid additive content

Solid additives increase the load-carrying properties at lubrication points, so the risk of seizure is reduced
Effective wear protection even under shock loads and low speeds
Reduces heat of friction, even in mixed lubrication conditions, so increases the service life of lubricating grease

Excellent load-carrying properties

Forms a continuous lubricating film that does not break even under heavy load and low speed conditions

Excellent wear protection

Provides protection against wear processes caused by fatigue and dynamic loads
Wear of contacting surfaces is reduced to minimum
Long equipment lifetime

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 and reduced environmental pollution
Economical use

High base oil viscosity

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

Exceptional thermal and oxidation stability

No hardening of lubricating grease at high temperatures and minimum oil separation
Longer lubricant lifetime, so reduced operational costs
Increased operational safety, availability and lifetime of equipment

Excellent corrosion protection

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

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Specifications and approvals

NLGI grade: NLGI 1
DIN 51502: GPF1N-30
ISO 6743-9: L-XCDEB 1

Properties

Properties	Typical values
Appearance	black, homogenous
Base oil viscosity at 40 °C [mm ² /s]	200
Dropping point [°C]	220
Penetration after 60 strokes at 25 °C [0,1 mm]	325
Four ball test, weld load [N]	3000
Four ball test 60 min/400 N wear diameter [mm]	0,6
Timken OK load [Lb]	45
Oxidation stability at 100 h / 100 °C pressure drop [kPa]	20
Corrosion at 100 °C/ 24 h (steel)	pass
Copper corrosion (100 °C, 24 h) [grade]	1
Oil separation [mass %]	5
Flow pressure at 0 °C [mbar]	250
Flow pressure at -25°C [mbar]	950
Molybdenum disulphide content [mass %]	4

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 34031980

SAP code and packaging:

13006030 MOL Alugear 1EPM 50KG

60 l steel drum (for order only)

Order booking:

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