

MOL Liton 1EP

lithium-base lubricating grease



A MOL Liton 1EP is a multipurpose lubricating grease produced from highly refined mineral oil and lithium 12-hydroxystearate thickener. It contains additives that reduce wear, inhibit oxidation and corrosion, as well as EP additive, to ensure outstanding performance. Due to its excellent application properties, it can be used in a wide range of applications.

It is moderately soft, brown coloured lubricating grease.

The temperature range of application is between -30 °C and +120 °C.

Application



Normal temperature applications

Heavy-duty sliding and rolling bearings

Low- and medium-duty enclosed gear drives

Individual and central supply lubrication systems

Features and benefits

Multipurpose lubricating grease

Wide range of applicability enables reduction of the number of lubricating oils
Problems due to mixing of lubricating greases are minimized
Warehousing and maintenance costs are reduced
Enables economical use

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

Excellent load-carrying properties

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

Excellent static water resistance

Provides reliable lubrication for equipment operating outdoors
No softening or running off the lubrication point in wet, humid environments

Exceptional thermal and oxidation stability

No hardening of lubricating grease at high temperatures and minimum oil separation
Longer lubricant lifetime, so reduced operational costs
Cycle time of re-lubrication can be increased significantly

Excellent low-temperature pumpability

Continuous pumpability in central-supply lubrication systems; no hardening and no greasing dropout
Easy start-up; low starting and operational torque

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: KP1K-30
DIN 51825: KP1K-30
ISO 6743-9: L-XCCEB 1

Properties

Properties	Typical values
Appearance	brown, homogenous
Base oil viscosity at 40 °C [mm ² /s]	200
Dropping point [°C]	190
Penetration after 60 strokes at 25 °C [0,1 mm]	325
Penetration change after 10000 strokes at 25 °C [0,1 mm]	10
Four ball test, weld load [N]	2600
Four ball test 60 min/400 N wear diameter [mm]	0,6
Timken OK load [Lb]	40
Oxidation stability at 100 h / 100 °C pressure drop [kPa]	25
Corrosion at 100 °C/ 24 h (steel)	pass
Copper corrosion (100 °C, 24 h) [grade]	1
Flow pressure at -20 °C [mbar]	500

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: 36 months

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

Ordering information

Custom Tariff Number 27101999

SAP code and packaging:

13006409	MOL Liton 1EP 8KG	8 kg steel pail
13006408	MOL Liton 1EP 50KG	60 l steel drum
13006407	MOL Liton 1EP 180KG	213 l steel drum

Order booking:

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