

Technical Information Specialty Lubricants

DESCRIPTION

Molykote[®] 3694 open gear lubricant is a very adhesive grease intended for use on gears and wire ropes. It is particularly effective under severe conditions where stresses are high both under cover and in the open.

A particular feature of the lubricating film is the wide temperature range over which it is effective. It will remain plastic at low temperatures and will not melt or run off at high temperatures.

Even at high contact pressures, the film resists rupture so preventing metal to metal contact, thereby reducing noise and wear.

If gears are already damaged, for example by pitting, the film strength of Molykote 3694 open gear lubricant will prevent further damage and when high pressures are involved permit some plastic metal flow while the gears are working and so smooth over the pitted areas.

Corrosion resistance is important in a lubricant used on gears and wire ropes operating in difficult environments. Molykote 3694 open gear lubricant is specifically formulated to offer the maximum possible protection.

The main features of Molykote 3694 open gear lubricant are:

- exceptional adherence
- outstanding corrosion protection
- maximum resistance to continuous high pressure and shock loading.

FIELDS OF APPLICATION

Extremely long lasting lubricant for all types of exposed gears, racks and slewing rings as found for example on dredgers, excavators, mechanical shovels and winches.

MOLYKOTE[®] 3694 open gear lubricant

Colour	brown/black
Lubricant type	inorganic thickener with solid lubricants
Solvent	trichloroethylene
Working temperature	-40 °C to +130 °C
Penetration* (DIN 51 804)	300-315
Drop point* (DIN 51 801)	about 150 °C
Resistance to water (DIN 51 804)	complete resistance
Shelf life	12 months**

* after evaporation of the solvent.
** spray cans 18 months

EXPERIMENTAL DATA

Maximum admissible load, with mixed friction, AWM value, N	15 000
Four-ball test O.K. load, N	3 600

Effective on screw type actuators found on metal working presses, draw frames, etc. Protects and lubricates cables on aerial ropeways, lifts, cranes, winches and conveyors.

METHOD OF USE

To obtain the maximum benefit, it is advisable to remove as much as possible of the old lubricant before the initial application of Molykote 3694 open gear lubricant. The grease may be applied by brush, spatula or from aerosol cans.

not inhale vapours. When this material is used effective ventilation must be provided or an efficient respiratory protection must be worn. Solvent is harmful if inhaled, taken internally or in contact with the skin. Observe the safety precautions on the product's label.

PACKAGING

400 ml spray cans
1 kg cans
5 kg containers

TOXICOLOGICAL INFORMATION

Molykote 3694 open gear lubricant contains 30% trichloroethylene. Keep container tightly closed. Do

MOLYKOTE®

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DOW CORNING

DESCRIPTION

Molykote® Longterm 00 is a semi-fluid gear grease of a soft stringy nature. Its outstanding features are:

- exceptional adhesion
- very high load bearing capacity
- excellent rust prevention

In addition to carefully selected active ingredients, the product contains a solid-lubricant combination which is extremely effective as a lubricant. Under normal operating load, a solid sliding film is formed out of the grease which largely prevents wear and tear and above all combats pitting on tooth flanks.

Even under extremely high surface pressure conditions, Molykote Longterm 00 reduces the coefficient of friction and effectively prevents metal-to-metal contact, thereby eliminating excessive wear. Molykote Longterm 00 improves running-in conditions. It provides longer relubrication intervals, reduces maintenance, and increases the reliability in operation with resultant higher economy.

APPLICATION

Follow the gear manufacturer's instructions.

FIELDS OF APPLICATION

For all types of highly loaded enclosed gears, gear motors, and universal joints. The grease can also be used for gearboxes which cannot be sealed satisfactorily at the point where the shaft enters the housing or at the joints, yet must keep out dust and moisture and prevent the lubricant from flowing out. The lubricant is suitable for use on vertical or inclined gears, as the structure of the grease is such that it is taken along by the rotating

MOLYKOTE® Longterm 00 Semi-fluid grease for long-term lubrication and extremely high pressures

Colour	black
Grease base	lithium soap/mineral oil
Temperature stability	approx - 40 °C to approx + 120 °C
Dropping point to DIN 51801	approx 160 °C
NLGI consistency No	00
Stability against water to DIN 51807 (at + 20 °C, + 50 °C and + 90 °C)	full stability
Resistance to cold according to cold test of the German Federal Railway	approx - 40 °C
Shelf life	18 months

TEST MACHINE DATA

High-pressure load under conditions of boundary friction: VWA value, DIN 51350, N	3200-3400
Anti-corrosion behaviour to DIN 51802 (SKF-Emcor)	No.0, no corrosion

NOTE
All testing machine data are average values from several test runs. In view of the variety of technical conditions, no liability can be accepted for individual performances.

gear wheels without channels being formed. Even at high circumferential speeds, a supporting grease and solid sliding film remains on the tooth flanks preventing metal-to-metal contact of the tooth flanks and thereby effectively combating tooth damage.

The products are subject to strict quality control and meet our factory

specifications. In view of the great number of factors involved, we can not guarantee a successful application in each and every individual case. We therefore recommend fields tests to be made. Any liability is expressly excluded.

PACKING

10 and 50 kg containers