

Product Information

LODEXOL PG INDUSTRIAL GEAR OILS FULLY SYNTHETIC

Description

A range of fully synthetic gear oils, manufactured from polyalkylene glycol (PAG) fluids and specialised extreme pressure (EP) additives, to provide outstanding protection at all temperatures to industrial gear systems. Unlike conventional gear oils PAG fluids maintain an effective lubricating film over a wide operating temperature range, from arctic conditions to high thermal loadings. PAG Fluids also have a high level of natural lubricity, reducing friction and lowering operating temperatures. As well as excellent load carrying capacity, anti-wear performance and EP properties, these grades also offer excellent rust and corrosion protection.

Applications

LODEXOL PG Grades are formulated and recommended for use in all types of industrial gearboxes, especially worm gear drives, where high loadings and speed can cause temperatures approaching the design limit of the equipment.

LODEXOL PG 150 is designed for use in automotive worm axles such as Kirkstall and Foden. It can also be used in the hoist derrick and slew gearboxes fitted to Coles cranes.

Warning: LODEXOL PG Grades must never be mixed with other synthetic or mineral based lubricants.

Performance Level

DIN 51517 T.3 (ISO 6743/2) Type CLP
Textron David Brown Classification Type G

Physical Characteristics

ISO VG	150	220	320	460
Density at 15°C	0.997	1.001	1.004	1.008
Viscosity cSt at 40°C	148	217	329	468
Viscosity Index	195	215	220	224
Flash Point (Closed)°C	190	195	265	285
Pour Point, °C	-30	-30	-28	-28
F.Z.G Gear Test, Pass	>12	>12	>12	>12
ASTM D2783 Weld Load/Kg	168	168	170	170



Certificate No. FM 21756



Certificate No. EMS 60044



Certificate No. OHS 555083

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Flush Procedure

When changing from mineral oil to Lodexol PG Industrial Lubricants the following procedure should be followed.

The system should be run until the mineral oil is warm, then drained as fully as possible, particular attention being paid to reservoirs, lines etc., where oil may be trapped. The system should be cleaned of residual sludge.

Flush the system with the minimum quantity of Lodexol PG Industrial Lubricant by operating under no load, then drain the system whilst fluid is warm. Repeat if necessary.

Seals, etc., should be inspected and if deteriorated then replaced. Seals previously exposed to mineral oil may shrink when exposed to Lodexol PG Industrial Lubricants and therefore it may be advantageous to replace them. The system is then filled with Lodexol PG Industrial Lubricant. It is useful to inspect the lubricant after one or two days in use to make sure that it is free of extraneous material. Contamination with significant quantities of other lubricants can, in some cases lead to sludging, foaming and other problems.

Materials Compatibility

Polyurethane based elastomers, leather, cork, asbestos, paper and board should be avoided.

Common seal and gasket materials are unaffected by Lodexol PG Industrial Lubricants. Nitrile Rubber (NBR), Fluoro-Silicone or Vinyl-Methyl Polysiloxane (Q) are recommended especially where high temperatures are involved.

Ordinary industrial paints soften in the presence of these products. Internal gearbox surfaces should ideally be unpainted, or coated with resistant materials, for example a resistant two-pack epoxy formulation.

These products must never be mixed with mineral oil, and ideally not mixed with other polyglycol lubricants in order to preserve their properties

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