



IGO HD

Extreme Pressure Industrial Gear Oil

Product Overview

IGO HD Series are high performance, mild EP, industrial gear lubricants formulated with a sulfur-phosphorus additive system, which also provides rust and oxidation inhibition and a metal passivator. Designed primarily for industrial gear lubrication services where loads and shock loadings are high.

Benefits

- High thermal stability EP system maintains clean gear and bearing surfaces, minimizing deposits which interfere with effective lubrication
- High oxidation stability limits in-service viscosity increases which lead to energy losses
- Extremely effective EP system forms a protective film in areas of metal-to-metal contact, minimizing wear rates and maintaining efficient transfer of power
- Good water separation and effective rust inhibitors protect surfaces against rust and corrosion
- High thermal stability additive system reduces the formation of high temperature compounds which can be corrosive to bearing materials
- The effective corrosion inhibitor provides additional protection for metal components
- Effective oxidation inhibitors and copper passivator which minimize oil oxidation, limiting viscosity increase and extending oil drain intervals

Applications

- Enclosed industrial gear drives
- Open gear drives (heavy grades)
- Spur, bevel, helical, worm and industrial hypoid gear cases
- Industrial type reduction gearboxes on mining equipment, cement mills, ball and rolling mills, crushers, conveyors, kilns, winches, machine tools and marine equipment
- Chain drives, sprockets, slide guides and flexible couplings
- Plain and rolling element bearings
- For bath, splash, circulation or spray lubrication, as applicable to the grade

Health and Safety

This lubricant is unlikely to produce any significant health or safety hazard when used in the application it has been designed for and according to the recommendations provided in the Material Safety Data Sheet. MSDS are available upon request through your sales advisor.

When disposing of used oil, please observe all current regulations and protect the environment.

IGO HD SERIES

Meets or exceeds the following industry Specifications

Grade	1000	1500	3200
AGMA lubricant N°	8AEP	9EP	10EP
ANSI/AGMA 9005-E02 (ex 9005-D94)	✓	✓	✓
Textron David Brown S1.53 101	✓	✓	✓
DIN 51547 Part 3: 2004-1 Category CLP	✓	✓	✓
Cincinnati LAMB P Series	✓	✓	✓
ISO 12925-1: 1996 Category CKD	✓	✓	✓

Typical properties

Test parameters	Method			
Viscosity @ 40 °C, cSt	ASTM D 445	955	1430	3050
Viscosity @ 100 °C, cSt	ASTM D 445	44.0	54.0	-
Viscosity Index	ASTM D 2270	85	80	-
Pour Point, °C	ASTM D 97	-3	-3	0
Timken test – OK load, lbs	ASTM D 2782	34.0	34.0	34.0
FZG Pass stage	ASTM D 2782	12	12	12

Above characteristics are mean values given as information. They do not constitute a specification.