



PATROL GEAR OIL EP 220

(EP - Industrial Gear Lubricant)

DESCRIPTION

PATROL GEAR OIL EP series are extra high performance gear oils having outstanding extreme pressure characteristics and load-carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems specially formulated to meet the stress by providing extra protection for gears, bearings and seals.

APPLICATIONS

PATROL GEAR OIL EP series are used in a wide range of industrial and marine applications, especially spur, helical, bevel and worm gearing. Specific applications include:

- Industrial gearing for conveyers, agitators, dryers, extruders, fans, mixers, presses, pulpers, pumps (including oil well pumps), screens, extruders and other heavy duty applications
- Marine gearing including main propulsion, centrifuges, deck machinery such as winches, windlasses, cranes, turning gears, pumps, elevators and rudder carriers
- Non-gear applications include shaft couplings, screws and heavily loaded plain and rolling contact bearings operating at slow speeds.

PRODUCT FEATURES & BENEFITS

- Excellent resistance to oil oxidation and thermal degradation
- Improved bearing wear protection
- High resistance to sludge and deposit formation
- Wide range of applications
- Long equipment life & long oil life
- Reduced debris denting from generated wear particles
- Enhanced gear wear protection from micro pitting
- Outstanding compatibility with a range of seal materials
- Optimized resistance to rust and corrosion of steel and corrosion of copper and soft metal alloys
- Resistance to foaming and emulsion formation

RECOMMENDATIONS / SPECIFICATIONS

MEETS OR EXCEEDS

EP 220

AGMA 9005-E02, DIN 51517-3: 2009-06, ISO 12925-1 Type

TYPICAL TECHNICAL PROPERTIES

Density at 15°C, g/ml, ASTM D4052	0.89
Kinematic Viscosity at 40°C, mm ² /s, ASTM D445	220
Kinematic Viscosity at 100°C, mm ² /s, ASTM D445	19.0
Viscosity Index, ASTM D2270	97
Flash Point(COC), °C, ASTM D92	240
Pour Point, °C, ASTM D97	-24
Timken OK Load, ASTM D 2782, lb	65
Rust protection, ASTM D 665, Sea Water	Pass
Copper Strip Corrosion, ASTM D 130, 3 hrs @ 100°C	1B
FZG Pass Stage, ASTM D5182	12

Note: These characteristics are typical of current production. While future production will conform to PATROL's specification, variations in these characteristics may occur.

Health and Safety: Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request. This product should not be used for purposes other than its intended use. If disposing off used product, take care to protect the environment.


