

# Opt-Max Galenix PAO 220

## INDUSTRIAL GEAR OIL

Opt-Max Galenix PAO 220 is a synthetic range of extreme-pressure gear oils specifically formulated for the lubrication of heavy-duty industrial gears.

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### Product Description

Opt-Max Galenix PAO 220 is a high quality synthetic gear oil that has been specially developed to meet the demanding load-carrying requirements of gear manufacturers. It's high load carrying capacity and anti-friction characteristics combine to offer superior performance and protection in gears.

### Features and Benefits

- Excellent EP properties which offer extreme high load-carrying capacity to provide cushions against shock loads.
- Excellent thermal and oxidation stability which can withstand high thermal loading and minimise the formation of sludge.
- Excellent anti-wear properties which help reduce gear tooth damage and bearing wear.
- Excellent rust protection which helps prevent rusting of gears and bearings in the presence of water.
- Enhanced corrosion protection which helps protect steel, cast iron, copper and bronze components contamination by water and solids.
- Good anti-foam properties which readily dissipate foam under the most unfavourable conditions, such as violent agitation in the gear case.
- Excellent demulsibility which assures good lubricant film strength and prevents gear surface from friction and wear.

### Applications

- Recommended for splash or pressure circulation lubrication of most types of enclosed gears, especially where operating conditions involve heavy loads, high speeds and high relative sliding velocities at elevated ambient and operating temperatures.
- Suitable for marine gearing including main propulsion, centrifuges, deck machinery such as winches, windlasses, cranes, turning gears, pumps, elevators and rudder carriers.
- Suitable for non-gear applications include shaft couplings, screws and heavily loaded plain and rolling contact bearings operating at slow speeds.

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**Opt-Max Global Pte Ltd**

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## Performance Standards

Opt-Max 68, 100, 150, 220, 320, 460 meet the following performance requirements:

- US Steel 224
- AGMA 250.04
- DIN 51517 Part III

## Specifications

Product Properties		Opt-Max Galenix PAO 220	Testing Methods
ISO Viscosity Grade	-	220	-
Kinematic Viscosity (40°C)	mm <sup>2</sup> /s	228.3	ASTM D445
Kinematic Viscosity (100°C)	mm <sup>2</sup> /s	19.1	ASTM D445
Viscosity Index	-	95	ASTM D2270
Density at 15°C	Kg/m <sup>3</sup>	897.0	ASTM D4052
Flash Point (open)	°C	230	ASTM D92
Pour Point	°C	-12	ASTM D97

\* Above product properties are indicative and subject to change without prior notice.

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## Storage and Handling

- All storage equipment, tanks, pipes, valves and etc. apparatus have to be cleaned thoroughly and inspected to be clean for use before transferring or transporting Opt-Max Galenix PAO 220
- Opt-Max Galenix PAO 220 must be stored in dedicated storage tanks/ equipment and it is recommended to be stored in an indoor controlled environment.
- Storage tanks/equipment must be waterproof, mist-proof and free from other mechanical particles.
- Opt-Max Galenix PAO 220 must be clearly labelled properly during the entire transportation process to prevent the risk of mixing with other petrochemical product.

## Health and Safety

Opt-Max Galenix PAO 220 is unlikely to present any significant health or safety hazard when properly used in the recommended application. This product must always be handled with care, particularly avoiding skin contact. For further guidance on Product Health & Safety refer to the appropriate Opt-Max Galenix PAO 220 Material Safety Data Sheet.