



GEAR OIL SYN 220

Industrial Gear Oil

Issue: January 2017

Product Code	Pack Size	Carton Qty
GOSYN220020	20 L	



PENRITE

Description

Gear Oil Syn 220 is a PAO and Ester based full synthetic, extreme pressure gear oil blended for a wide range of industrial applications operating in severe service conditions. It is formulated for extreme pressure performance and wear protection where elevated temperatures and heavy shock loading occurs, to outperform conventional lubricants. It has increased protection against corrosion and rust and higher thermal stability to resist oil oxidation.

Application

Gear Oil Syn 220 is for use where industrial machinery is exposed to severe climatic conditions and where an EP lubricant is specified. It can be used in many types of gearbox applications including spur, bevel, herringbone, helical and worm gear in both stationary and mobile equipment.

Gear Oil Syn 220 can also be used in crushers, hoists, conveyers, machine tools, lathes, winch gearboxes, hoists, cranes, flexible couplings, sprockets, chain drives and speed reducers as well as for plain and friction bearings subjected to heavy duty operating conditions.

Gear Oil Syn 220 can also be used as a circulating oil, where a heavy duty, extreme pressure lubricant is required. It is also suitable for most types of lubricating systems including spray, splash, mist, bath and pump circulation.

Product Benefits

- Full Synthetic base oils for **Premium Performance** and **Durability**
- **Protects** against rust and corrosion
- **Minimises** wear by using effective extreme pressure additives.
- **Outstanding** oxidation and thermal stability for long life.
- Minimises foaming
- Excellent water and air separation characteristics for reduced surface wear
- Maintains oil film strength for extended equipment life
- Compatible with conventional seal materials

Industry Specifications

API GL-3
ANSI/AGMA 2005-E02 EP
Joy TO-SMEP (ISO220)
Hitachi Construction

AIST 224 (US Steel Specification No. 224)
MAG Cincinnati Machine P-74 (ISO 220)
DIN 51517 Part 3 CLP

Typical Data

ISO Grade	220
AGMA Grade	5 EP
Viscosity, Kinematic, cSt	
at 40°C	209
at 100°C	26.9
Viscosity Index	164
Pour Point, °C	-51
Timken OK Load, kg	43
Rust Test, ASTM D665A and B	Pass
FZG Pass Stage	>12
Four Ball EP, Weld Point, kg (min)	250

Information in this sheet is based on recent production. Minor variations to typical properties are expected in normal manufacture and do not affect performance. A MSDS is available on request.



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