



PRODUCT & TECHNICAL DATA

PRO SYNTH INDUSTRIAL GEAR OIL RANGE

HIGH QUALITY, POLYALPHAOLEFIN (PAO) BASED INDUSTRIAL GEAR OIL

DESCRIPTION

Pro Synth Industrial Gear Oils is a polyalphaolefin (PAO) based gear oil that reduces wear and heat build-up. The PAO properties of the gear oil has a high film strength and will absorb high shock loads and demulsify quickly. Pro Synth Industrial Gear Oils have superior shear stability and because of its high VI (Viscosity Index) will replace a wide range of gear oils in the most severe applications. It is also compatible with all mineral oils and most seals and seal materials. Pro Synth Industrial Gear Oils will extend oil change intervals up to ten time more than normal gear oils and can be used on all Industrial Gear boxes of any make and type i.e. Worm, Helical, Spur, Bevel, etc.

APPLICATIONS

Based upon synthetic hydrocarbons, these products exhibit outstanding thermal stability and resistance to oxidation, excellent viscosity/temperature characteristics, high load carrying ability, outstanding water and air separation, low foaming tendency and exceptional rust protection. The range of viscosities available has been extended to ensure that a product is available for virtually every application where a lubricating oil is placed under extreme stress, from hydraulic systems through to large, slow moving gears where Pro Synth Industrial Gear 680 would be used. All products in the Pro Synth Industrial Gear Oil Range of lubricants have very low pour points and excellent viscosity/temperature characteristics, allowing their use in low temperature as well as high temperature applications.

PERFORMANCE LEVELS

- US Steel 224
- Din 51517 Part 3
- David Brown SI.53.101
- AGMA 9005-E02

FEATURES AND ADVANTAGES

- Outstanding thermal stability and resistance to oxidation.
- Medium load carrying ability.
- Outstanding water and air separation.
- Exceptional rust protection.
- Low foaming tendency.
- Low Volatility.
- Reduces energy losses.
- Can be used in wet environments.
- Ensures constant lubricant flow.
- Oil consumption due to evaporation reduced; viscosity does not increase in service.
- Longer machine component life.
- Long oil life, reduction in downtime.

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PHYSICAL CHARACTERISTICS

ISO VG	68	100	150	220	320	460	680	1000
Density @ 20 °C, kg/l	0.865	0.869	0.872	0.875	0.880	0.895	0.880	0.890
Viscosity @ 40 °cSt	68	100	150	220	320	460	680	1000
Viscosity @ 100 °cSt	14	16	22	30	41	54.50	75	84.40
Viscosity Index	171	172	174	178	183	185	190	192
Pour Point, °C	-40	-40	-37	-33	-30	-25	-27	-27
Flash Point, °C	>240	>240	>240	>240	>240	>240	>240	>240
FZG A/8.3/90 °C	>12	>12	>12	>12	>12	>12	>12	>12

GENERAL ADVICE

Further information on all Pro Oil SA lubricants is available from any Pro Oil SA office or from:
www.prooil.co.za

These characteristics are typical of current production.
Whilst future production will conform to Pro Oil SA's specification, variations in these characteristics may occur.

Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet, which can be obtained from your Pro Oil SA representative.

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