SARGEAR SYNTH PAO 680

Last Updated: 09.01.2025
Product Code: PAO0680

SARGEAR SYNTH PAO 680 is a full synthetic gear and bearing oils utilising Group IV polyalphaolefin technology to offer outstanding performance under severe operating conditions. Designed for significantly improved load carrying ability, excellent wear and rust protection, with a high viscosity index, high flash point, low pour point, and outstanding oxidative stability for cleaner systems and compatibility with stringent Wind Turbine Specifications.

APPLICATION

- Filled for life gearboxes
- Low temperature applications
- Plain and rolling element bearings
- Oil circulation systems
- Remote applications where oil changes are difficult to access
- ISO 220 and 320 grades extensively tested to meet the performance requirements of wind turbine applications

BENEFITS

- Excellent oxidation and thermal stability, extending lubricant life.
- Classed as inherently biodegradable.
- High load carrying capability.
- Seal and paint compatibility.
- Wide temperature range performance of -50°C to + 180°C depending on grade.

PERFORMANCE PROFILE

- DIN 51517 Part 3
- AGMA 9005-E02 (EP)

TYPICAL PROPERTIES

Appearance	Clear
Kinematic Viscosity @ 40°C	680
Viscosity Index (ASTM D2270)	140
Pour Point °C	-24
Flash Point, (COC) °C	250
Foaming (ASTM D892) – After sequence 1	Nil
Foaming (ASTM D892) – After sequence 2	Nil
Copper Corrosion	1b
Biodegradablility % (ISO 9439)	>60
FZG Gear Test Stage	13

HEALTH & SAFETY

Please refer to the Safety Data Sheet, freely available, for product handling and disposal advice. Please note that the SDS includes handling, storage, health and disposal information which should be passed on to anyone else who comes in contact with our product. Additional advice can also be obtained from your local representative.

NOTE: Read and understand all precautions on container labels before using this product.

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