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# Product Data Sheet (PDS)



## GP MARGEN MARINE GEAR OIL SERIES

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# GP MARGEN MARINE GEAR OIL SERIES



GP MARGEN Marine Gear Oil with EP additives specially formulated for all types of gears and bearings in extreme pressure conditions.

## **Product Description:**

GP MARGEN Gear oil series are high performance extreme pressure gear oils developed for lubrication of heavy duty industrial gears working under severe operating conditions. These are blended from high quality base stocks and sulphur-phosphorous type extreme pressure additive system that gives excellent load carrying capability to provide protection against shock loading and wear. The high thermo-oxidative stability of the oil helps resist high temperature deposit formation and oil thickening. In addition, these oils also possess excellent water separation characteristics and offer resistance to foaming. These oils exceed the performance requirements of various industry specifications viz. DIN 51517 Part 3, ISO 12925-1 Type CKC/D, AGMA 9005 F16 Antiscuff, David Brown S1.53 101, US Steel 224, Ortlinghaus Clutch and Siemens MD.

## **Features & Benefits:**

- Excellent load carrying capability protects gears against scuffing and wear and offers long equipment life and reduced maintenance costs.
- High thermo-oxidative stability helps resist deposit formation, provides enhanced system cleanliness and enables longer service intervals.
- Provides effective rust and corrosion protection to all gearbox components.
- Excellent demulsibility property enables trouble-free operation in conditions encountering water/moisture.

## **Applications:**

- Wide range of industrial spur, helical, bevel and steel-on-steel worm gears.
- Heavy-duty industrial enclosed gears operating under heavy or shock loading conditions and requiring extreme pressure performance.
- Journal and roller contact industrial bearings operating at low speeds and high loads.
- Suitable for splash, mist and circulating systems.
- Marine gear applications.
- The shelf life of GulfSea Gear Oil can be extended when stored in an area away from sunlight and extreme heat.

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## TECHNICAL DATA:

GP MARGEN GEAR OIL Series							
ISO Viscosity grades	68	100	150	220	320	460	680

Meets the following Specifications							
DIN 51517 Part 3	X	X	X	X	X	X	X
ISO 12925-1 Type CKC/CKD	X	X	X	X	X	X	X
AGMA 9005 F16 Antiscuff	X	X	X	X	X	X	X
David Brown S1.53 101 (M,A,E)	X	X	X	X	X	X	X
US Steel 224	X	X	X	X	X	X	X
Ortlinghaus Clutch		X	X	X			
Siemens MD for Flender Gearboxes		X	X	X	X	X	X

TYPICAL PROPERTIES							
Test Parameters	TEST VALUES						
Viscosity @ 40 °C, cSt	68.1	100.5	150.4	220.2	320.4	460.5	680.2
Viscosity Index	101	99	99	98	99	97	97
Flash Point, °C	224	224	230	240	246	255	260
Pour Point, °C	-27	-21	-21	-21	-18	-15	-12
Density @ 15°C, Kg/l	0.884	0.885	0.89	0.893	0.901	0.904	0.904
Rust Test	Pass	Pass	Pass	Pass	Pass	Pass	Pass
FZG, fail load stage	>12	>12	>12	>12	>12	>12	>12
Copper Corrosion	1b	1b	1b	1b	1b	1b	1b

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## **Health and Safety:**

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

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.

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