

DESCRIPTION

Petrogulf GEARSHIELD PRO Syn EP Gear Oil specially formulated for all types of gears and bearings with higher oxidation resistance, hydrolysis resistance and anti-rusting properties. Petrogulf Synthetic Gear Oil series are premium quality synthetic heavy-duty industrial gear oils offering outstanding lubrication performance and load carrying capacity under severe operating conditions including shock loading. These are formulated from Polyalphaolefin (PAO) synthetic base stocks having exceptional oxidation resistance and thermal properties and excellent low temperature fluidity. Combination of naturally high VI base stocks and additive technology provides excellent protection against scuffing.

APPLICATIONS

- Bearing and circulation system where high temperatures are encountered.
- Heavy-duty marine encloses gears such as bow thruster and purifier.
- Industrial enclosed gear boxes operating under severe conditions like high load, extreme temperatures and wide temperature ranges.
- Severe heavy-duty gearboxes with high risk of micro pitting wear.

TYPICAL CHARACTERISTICS

PROPERTIES	TYPICAL VALUES							
ISO Grade	46	68	100	150	220	320	460	680
Kinematic Viscosity @40°C, mm ² /s	45.6	68.5	100.8	150.2	218.2	320.2	455	670
Kinematic Viscosity @100°C, mm ² /s	8.2	10.9	14.2	18.6	24.06	32.8	43	60
Viscosity Index	>140	>140	>140	>140	>135	>135	>140	>140
Density @ 15°C Kg/L	0.848	0.850	0.852	0.855	0.859	0.862	0.87	0.87
Pour Point, °C	-48	-45	-42	-39	-36	-30	-30	-30
Flash Point (COC), °C	216	226	230	234	238	244	250	256
Foaming Seq. I ml/ml	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
II ml/ml	20/0	20/0	20/0	20/0	20/0	20/0	20/0	20/0
III ml/ml	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Brookfield Viscosity @ -18°C, cP	10000	11000	12000	13000	13600	22000	32000	41000
Brookfield Viscosity @-28°C, cP	15000	16000	17000	18000	18200	35000	57000	156000
FZG Test, DIN 51534, Fail Stage	>12	>12	>12	>12	>12	>12	>12	>12
FZG Micropitting, Load Stage	>10	>10	>10	10	10	10	10	10
FZG A/8.3/90, stage	>12	>12	>12	>12	>12	>12	>12	>12
Copper Corrosion@100 °C 3hrs	1A	1A	1A	1A	1A	1A	1A	1A
Rust Test	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

*These characteristics are typical of current production. Whilst future production will conform to Petrogulf specification, variations in these Characteristics may occur. The oil drain interval as specified by the engine manufacturer should be adhered to, particularly where indirect fuel injection is used.

ISO GRADE	46	68	100	150	220
PRODUCT CODE	30403000600	30403000800	30403001000	30403001100	30403001200
	320	460	680		
	30403001300	30403001400	30403001500		

Handling, Health and Safety

- In normal conditions of use, this lubricant presents no particular toxic hazard. All lubricants, of any kind should be handled with great care, particularly avoiding any contact with skin.
- Prevent any splashing, and keep away from combustible materials. Store under cover and away from any risk of pollution. Dispose off the used oil correctly; don't pour down drains, into watercourses or the soil.
- PetroGulf will not accept liability if the product is used other than in manner or with the precautions, or for the purpose specified. Before the product is used other than directed advice should be obtained from PetroGulf local office.