

### PETROGULF SYNTHETIC GEAR OIL

#### PRODUCT DESCRIPTION

**Petrogulf Synthetic 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 enclose 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

ISO Grade	Method	46	68	150	220	320
Density @ 15 ° C, kg/L	ASTM D 4052	0.848	0.850	0.857	0.859	0.862
Kinematic Viscosity @ 100 <sup>o</sup> (cSt)	ASTM D 445	8.2	10.9	22.0	24.10	32.16
Kinematic Viscosity @ 40 <sup>o</sup> (cSt)	ASTM D 445	45.6	68.5	157	218.2	314.6
Viscosity Index	ASTM D 2270	>140	>140	>140	>140	>140
Pour Point	ASTM D97	-48	-45	-42	-36	-30
Flash Point, °C	ASTM D 92	220	225	235	235	235
FZG Test, DIN 51534,Fail Stage	DIN 51534	>12	>12	>12	>12	>12
FZG Micropitting, Load Stage	FVA 54	>10	>10	>10	>10	>10
Rust Test	ASTM D 665	Pass	Pass	Pass	Pass	Pass

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

#### HANDLING, HEALTH AND SAFETY

- Lubricants consisting of highly refined mineral oils with specific additives under normal conditions of use, 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 used oil correctly; don't pour down drains, into water courses or the soil.
- Take used oil to an authorized collection point.