



PRODUCT INFORMATION

FROM THE HOUSE OF PETRELPLUS INC.

SYF-1200 PAO BASE SYNTHETIC GEAR OIL

SYF-1200 High performance, 100% Synthetic industrial gear oils are designed to provide optimum equipment protection and oil life even under extreme conditions. Poly alpha olefin (PAO) technology has been selected for its exceptional oxidation resistance and thermal properties, naturally high viscosity index, excellent low temperature fluidity and absence of undesirable compounds that are often found in mineral oils. The high viscosity index and low traction coefficient of this oil combine to help provide significant reduction in power consumption in many gear drives. SYF-1200 lubricants contain an advanced and carefully blended proprietary additive system designed to provide excellent protection against conventional wear modes such as scuffing and provide a high level of resistance against micro pitting fatigue. In addition, compared to conventional gear oil chemistries, they offer the potential for improved lubrication of gearbox rolling element bearings.

SYF-1200 products offer outstanding rust and corrosion protection in applications where salt water and acidic water protection are required. These products provide outstanding filter life even when moderately wet and have excellent compatibility with ferrous and non-ferrous metals even at elevated temperatures.

Specially Designed For Stone Processing And Mining Machines Like Liner Polish Machine, Gantry Crane (50Ton) And Epoxy Resin Line.

SYF-1200 lubricants are recommended for enclosed industrial gear drives including steel-on-steel spur, helical, and bevel gears. They are highly recommended in applications that may be subject to micro pitting: especially heavily loaded gearboxes with surface-hardened tooth metallurgies. They may also be used in gear applications where extreme low and/or high temperatures are encountered and applications where corrosion may be severe. Because of their unique mix of properties, including resistance to micro pitting wear, and their performance in tough applications and wide temperature range,

Benefits

- Superb protection from micro pitting fatigue wears as well as high resistance to traditional scuffing wear.
- Excellent resistance to degradation at high temperatures.
- Low traction PAO base stocks for improved gear efficiency.
- High viscosity index base stocks reduce viscosity change with temperature.
- Excellent resistance to rust and corrosion and very good demulsibility.
- Outstanding filter life, even in presence of water.
- Excellent compatibility with common gearbox materials of construction and with mineral-based gear oils.

Applications

Application Considerations: While the SYF-1200 is compatible with mineral oil based products, admixture may detract from their performance. Consequently it is recommended that before changing a system to one of the SYF-1200, it should be thoroughly cleaned out and flushed to achieve the maximum performance benefits. Modern, highly loaded gearboxes used in the paper, steel, oil, textile, lumber and cement industries where gear protection and optimum oil life are required.

PERFORMANCE STANDARD

DIN 51517 Part 3, U.S. Steel 224, AGMA 9005-E02, ISO 12925-1 CKC/CKD, David Brown S1.53.101, GM LS 2EP Gear Oil, Fives Cincinnati Machine Gear

Typical Properties

PROPERTIES	VG-100	VG-150	VG-220	VG-320	VG-460	VG-680
ISO Viscosity Grade	100	150	220	320	460	680
Viscosity, ASTM D 445						
cSt @ 40° C Mm2/s	99	150	220	316	460	680
cSt @ 100° C Mm2/s	13,14	19.5	26	35	45.6	62.2
Viscosity Index, ASTM D 2270	140	150	150	155	155	160
Pour Point, °C, ASTM D 97	-45	-45	-36	-33	-45	-42
Flash Point, °C, ASTM D 92	250	250	250	250	300	300
Specific Gravity @ 15.6° C kg/l, ASTM D 4052	0.86	0.86	0.87	0.88	0.89	0.9
FZG Scuffing, DIN 51345 (mod) A/16.6/90, Fail Stage	13+	13+	13+	13+	14+	14+
4-Ball Wear test, ASTM D 4172, mm (Mod 1,800 RPM, 20kg, 54° C, 60 Minutes)	250	250	250	250	250	250
Rust protection, ASTM D665, Sea Water Water Seperability, ASTM D 1401, Time to 40/37/3 at 82° C, minutes	PASS	PASS	PASS	PASS	PASS	PASS
Foaming Characteristics, ASTM D 892, Seq. II, Tendency/Stability, ml/ml	0/0, 0/0,00	0/0, 0/0,00	0/0, 0/0,00	0/0, 0/0,00	0/0, 0/0,00	0/0, 0/0,00

Available Packs: 1, 5, 20, 50, 210 Ltr.

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

The Material Safety Data Sheet (MSDS) are available upon request through our sales office.

- All related specifications are meets or exceeds.

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