



SYNFILM® NGL

HYDROCARBON GAS COMPRESSOR OIL

Synfilm® NGL is a long life, high film strength, synthetic lubricant specifically designed to increase the service life of rotary screw, centrifugal, reciprocating and rotary vane gas compressors in hydrocarbon gas service. It greatly resists dilution from hydrocarbon gasses that can cause significant viscosity losses in other compressor oils. Synfilm NGL is also contains additive chemistry that resists degradation to the lubricant caused by acidity in dirty or sour gas applications. Other benefits of Synfilm NGL include rapid separation from water, and excellent thermal and oxidation stability to minimize deposits and extend drain intervals. Synfilm NGL is formulated with Royal Purple's proprietary Synerlec® additive technology for maximum protection against wear and corrosion.

Synthetic base oils provide the foundation that enables Royal Purple to make superior lubricants, but it is Royal Purple's advanced Synerlec® additive technology that gives its lubricants their amazing performance advantages. Synerlec additive technology truly is beyond synthetic. Synerlec® additive technology forms a tough, slippery, synthetic film on all metal surfaces. This proprietary film significantly improves lubrication by drastically increasing the oil film's strength which helps to prevent metal-to-metal contact. With less metal-to-metal contact, friction, heat, and wear are greatly reduced. Synerlec® displaces moisture from metal surfaces and protects all metals against rust and corrosion. It also fortifies the oil against the detrimental effects of heat, which causes oil to oxidize.

PERFORMANCE ADVANTAGES

SUPERIOR FILM STRENGTH – Protects bearings far beyond the ability of other compressor and pump oils, carrying up to 700% greater loads

EXCELLENT DEMULSIBILITY – Rapidly and completely separates from water, which is easily drained from the oil reservoir

INCREASED EFFICIENCY – Extremely low coefficient of friction reduces parasitic loss in equipment, saving energy mineral oils

ENHANCED RESISTANCE TO DILUTION
– Formulated to resist hydrocarbon gasses; maintains viscosity in gas compression service

OUTSTANDING OXIDATION RESISTANCE – Greatly increases the useful life of the lubricant and resists varnish formation

EXCELLENT CORROSION PROTECTION – Forms an ionic bond on metal surfaces, displacing water with rust inhibiting chemistry

REDUCES BEARING VIBRATIONS – Tough oil film along with an ability to micro-mend bearing surfaces provides superior bearing lubrication

ASHLESS FORMULATION – Reduces deposit formation in higher temperature service

WIDE SEAL COMPATIBILITY RANGE – Compatible with all materials commonly used in oil seals, such as fluoroelastomers, neoprene, Buna N (except high ACN), and silicone. It is not for use with EPDM or EPR elastomers.



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TECHNICAL DATA

Property	Test Method	46	100	150	220
SAE Grade	SAE J300	SAE 20/SAE 80	SAE 40/SAE 85	SAE 50/SAE 90	SAE 60/SAE 110
ISO Grade	ISO 3448	46	100	150	220
Viscosity @ 40°C, cSt	ASTM D445	50.0	99.5	156	217
Viscosity @ 100°C, cSt	ASTM D445	8.2	13.3	18.1	22.8
Viscosity Index	ASTM D2270	138	133	129	129
Specific Gravity	ASTM D4052	0.853	0.862	0.867	0.882
Flash Point, °C (°F)	ASTM D92	235 (455)	243 (470)	260 (500)	260 (500)
Pour Point, °C (°F)	ASTM D97	-60 (-76)	-42 (-44)	-42 (-44)	-45 (-49)
Cu Corrosion, 3hr @ 100°C	ASTM D130	1A	1A	1A	1A
Cu Corrosion, 24hr @ 100°C	ASTM D130	1A	1A	1A	1A
Rust Preventing, Fresh Water	ASTM D665A	PASS	PASS	PASS	PASS
Rust Preventing, Salt Water	ASTM D665B	PASS	PASS	PASS	PASS
Demulsibility, @130°F	ASTM D1401	42/38/0 (10)	--	--	--
Demulsibility, @180°F	ASTM D1401	--	42/38/0 (10)	41/37/1 (5)	43/37/0 (5)
Foam Test, Seq.II	ASTM D892	0/0/0	0/0/0	0/0/0	0/0/0

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