



## **SYNFILM NGL**

### **HYDROCARBON GAS COMPRESSOR OIL**

#### **BEYOND SYNTHETIC®**

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 formulated with Royal Purple's proprietary Synerlec additive technology for maximum protection against wear and corrosion. It rapidly separates from water and has excellent thermal and oxidation stability to minimize deposits and extend drain intervals.

#### **SYNERLEC® ADDITIVE TECHNOLOGY MAKES THE DIFFERENCE!**

Synthetic oils enable 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: first, by increasing the oil film's thickness, and second, by increasing the oil film's toughness, both of which help to prevent metal-to-metal contact. It 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**

##### **High Film Strength**

Synfilm NGL provides maximum protection against wear.

##### **Greater Equipment Reliability and Safety**

Synfilm NGL resists dilution from hydrocarbon gasses, thereby minimizing the potential for reductions in viscosity and flash point, which can increase wear and create a safety hazard to operators.

##### **Rapidly Separates from Water**

Synfilm NGL rapidly and completely separates from water.

##### **High Oxidation Stability**

Synfilm NGL's superior oxidation stability extends drain intervals while keeping the compressor clean.

##### **Saves Energy**

Synfilm NGL has a very low coefficient of friction. Energy savings of 1 to 3 percent or more are common.

##### **Excellent Corrosion Protection**

Synfilm NGL protects during operation and acts as a preservative oil during shutdown. Synthetic corrosion inhibitors ionically bond to metal surfaces displacing water and liquid hydrocarbons.

##### **Compatible with Seals**

Synfilm NGL has excellent seal compatibility.

##### **Compatible with Other Oils**

Synfilm NGL is compatible with most elastomers and can be mixed with other mineral oils and most synthetic oils. (It is not compatible with silicone or glycol-based synthetics.)



**Ashless**

Synfilm NGL is ashless to help keep compressor parts free from deposits.

**Environmentally Responsible**

Synfilm NGL components are TSCA listed and meets EPA, RCRA and OSHA requirements. Synfilm extends drain intervals and conserves energy.

		ISO GRADE			
Typical Properties*	Method	46	100	150	220
Viscosity	D-445				
cSt @ 40°C		46	100	150	220
cSt @ 100°C		8	13	18	22
Viscosity Index	D-2270	135	130	130	125
Flash Point, °F/°C	D-92	455/235	470/243	500/260	500/260
Pour Point, °F/°C	D-6892	-76/-60	-44/-42	-49/-45	-49/-45
Copper Corrosion Test	D-130				
3 Hrs @ 100°C		1A	1A	1A	1A
24 Hrs @ 100°C		1A	1A	1A	1A
Rust Test	D-665				
Fresh Water		PASS	PASS	PASS	PASS
Salt Water		PASS	PASS	PASS	PASS
Foam Test, Seq II	D-892	0/0/0	0/0/0	0/0/0	0/0/0
Demulsibility Test	D-1401				
Mins @ 130°F		42/38/0(10)			
Mins @ 180°F			42/38/0(10)	41/37/1(5)	43/37/0(5)
Density, lbs/g	D-4052	7.10	7.17	7.22	7.26

*\*Properties are typical and may vary.*