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# Product Data Sheet



NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability. Product typical properties in this publication are current.

## SYNTHETIC BLEND

### NGP-320 Natural Gas Compressor

When a synthetic oil is not needed, Summit's **NGP 320** highly refined petroleum based lubricants is formulated to provide some of the same benefits provided by hydrocarbon based synthetics such as PAO and PIB. The additive technology used in **NGP 320** enables it to outperform other mineral oil based lubricants.

Some of the benefits of **NGP 320** are:

- The high viscosity index (V.I.) of **NGP 320** is comparable to a synthetic PAO and means a significant increase in operating temperature range over most mineral based oils. It also means a lower viscosity grade **NGP 320** product may be used in place of a higher viscosity mineral oil with a lower viscosity index. This can mean lower temperature flow limits and may eliminate the need for heated, pressurized day tanks and heat traced lines. It can also mean better lubricant film strength at higher cylinder and packing temperatures on reciprocating compressors.
- The pour point of **NGP 320** approaches that of a synthetic PAO and may be as much as 25 °F lower than some mineral based oils. The lower limit may eliminate no flow shutdowns on cold days or the need for special tank and line heaters.
- **NGP 320** is made from highly purified petroleum oils that only contain trace amounts of sulfur and other impurities found in group I mineral oils. Impurities common to many mineral oil base stocks can react with components of the gas stream to form by-products harmful to the compressor system.
- **NGP 320** is formulated to inhibit against the corrosive effects of wet CO<sub>2</sub> and H<sub>2</sub>S often found in gas compressor applications.
- **NGP 320** is tailor made for gas compressor applications. It is not simply an R&O oil developed for general purpose lubrication put into gas compressor service. Both synthetics and petroleum based oils have their place in gas compressor applications. Consult with Summit's Gas Compressor Specialist to find out which product is right for your application.

## Physical Properties

PRODUCT	NGP-320
ISO Grade	320
Viscosity:	
@ 40°C, cSt	325
@ 100°C, cSt	35.3
@ 100°F, SUS	1691
@ 210°C, SUS	172
Viscosity Index	154
Specific Gravity	0.876
Density, 60°F, lbs/gal	7.3
Pour Point, °F (°C)	-29 (-34)
Flash Point, °F (°C)	465 (241)
Four Ball Wear Test, mm	0.65

## Thermal Characteristics:

**Specific Heat**  
BTU/lbm - °F  
140°F = 0.476  
160°F = 0.485  
180°F = 0.494

**Thermal Conductivity**  
BTU/hr - ft<sup>2</sup> and °F/inch  
0°F = 0.94  
200°F = 0.88  
400°F = 0.83