



NGS

SYNTHETIC BLEND COMPRESSOR FLUIDS

Introduction

Petro-Canada's NGS 1000 and NGS 1500 Synthetic Blend Compressor Fluids are a custom-blended combination of hydrotreated (HT) mineral oil and polyalphaolefin (PAO), fortified with corrosion inhibitor, lubricity improve, and antifoam additives. The additive system is compatible with sour (H₂S) hydrocarbon gas systems.

Features and Benefits

- **Protects equipment from corrosion**
- **Good low temperature properties minimize wear in cold temperature starts**
- **High viscosity index provides a stronger lubricant film over a wide range of temperatures**
- **Higher viscosity at operating temperature gives greater volumetric efficiency in rotary screw compressors**

Applications

NGS 1000 and NGS 1500 were developed for use as a compressor fluid for flooded screw compressors in natural gas service. It is widely used for applications involving harsh environments and high temperatures.

NGS 1000 and NGS 1500 are specifically recommended for:

- Compression of light hydrocarbon gases (methane and ethane) where the expected dilution is <10% wt.
- Lubricant / coolant for process and gas rotary screw compressors
 - NGS 1500 is intended for larger screw compressors but may be used in smaller compressors that require an ISO 150 fluid
- Lubricant / coolant for process applications and is especially effective in combating corrosion and promoting long life in sour hydrocarbon gas compressors

What is the HT difference?

Petro-Canada Lubricants starts with the HT purity process to produce water-white, 99.9% pure base oils. The result is a range of lubricants, specialty fluids and greases that deliver maximum performance for our customers.



Typical Performance Data

PROPERTY	TEST METHOD	NGS 1000	NGS 1500
Density, kg/L at 15 °C	ASTM D4052	0.853	0.855
Flash Point, °C / °F	ASTM D92	262 / 504	244 / 471
Fire Point, °C / °F	ASTM D92	300 / 572	302 / 576
Kinematic Viscosity cSt at 40 °C / SUS at 100 °F	ASTM D445	95 / 489	147 / 757
cSt at 100 °C / SUS at 210 °F	ASTM D445	13 / 71	19 / 96
Viscosity Index	ASTM D2270	139	149

The values quoted above are typical of normal production. They do not constitute a specification.

To order product or to learn more about how Petro-Canada Lubricants can help your business visit: lubricants.petro-canada.com or contact us at: lubecsr@petrocanadalsp.com



IM-7957E (2016.02)

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