



NG COMPRESSOR OIL PAO 150 SYNTHETIC COMPRESSOR FLUID

Introduction

Petro-Canada's synthetic compressor fluid NG Compoil PAO 150, is specially designed for use in flooded screw compressors in natural gas production and service. It is intended for the compression of light hydrocarbon gases at elevated discharge temperatures.

This premium fluid, with a select performance additive package is compatible with sour (H₂S) hydrocarbon gas systems.

NG Compoil PAO 150 can also be used in reciprocating compressors. Its excellent water separation characteristics and corrosion protection make it particularly beneficial for compression of acid gas streams in applications where the cylinder discharge pressure is moderate (<2000 psig).

Features and Benefits

- **Protects equipment from corrosion in sour gas streams**
- **Excellent lubricity**
- **Low temperature pumpability minimizes wear in cold temperature starts**
- **High viscosity index**
- **High thermal stability and good deposit control**
- **Low volatility**
- **Excellent water separation**

Applications

NG Compoil PAO 150 compressor fluid is used for flooded screw compressors in natural gas field booster service. It is widely used for applications involving contaminated hydrocarbon gas streams and elevated temperatures.

NG Compoil PAO 150 is specifically recommended for:

- **Compression of the lightest hydrocarbon gases (methane and ethane) where the expected dilution is <10 wt%, and discharge temperatures are elevated (>99 °C / 210 °F)**
- **Compression of sour natural gas streams**
- **Compression of natural gas with high CO₂ content**
- **Available in ISO 150 viscosity grade**

In reciprocating compressors, NG Compoil PAO 150 is particularly recommended for:

- **Compression of Natural gas with high levels of CO₂ contamination**
- **Compression of acid gas streams (water saturated Natural Gas with CO₂ and/or H₂S content)**

For more detailed recommendations on cylinder packing lubrication for various gas stream components, please contact your Petro-Canada Technical Services Advisor. TechBulletin TB-1105 Lubricant Recommendations for Reciprocating Compressor Cylinders and Packings is also available for general guidance.

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	NG CompOil PAO 150
ISO grade		150
Appearance		Colourless to yellow
Density, kg/L at 15.6 °C (60 °F)	ASTM D4052	0.840
Kinematic Viscosity cSt at 40 °C cSt at 100 °C	ASTM D445	150 21
Viscosity Index	ASTM D2270	165
Flash Point, COC, °C / °F	ASTM D92	284 / 543
Acid Number (AN), mg KOH / g	ASTM D664	<0.10
Pour Point, °C / °F	ASTM D5950	-33 / -27
Brookfield Viscosity, @-25 °C, cP	ASTM D2983	45,000
4-ball Weld, kg	ASTM D2596	126
Mechanical Emulsion, 82 °C	ASTM D1401	41-39-0 (5)

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

For more detailed recommendations for various gas streams and conditions, contact a Petro-Canada Technical Services Advisor to determine which Petro-Canada natural gas compressor fluid will meet your needs.

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



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