



SPX 5000 SYNTHETIC PAG COMPRESSOR FLUID

Introduction

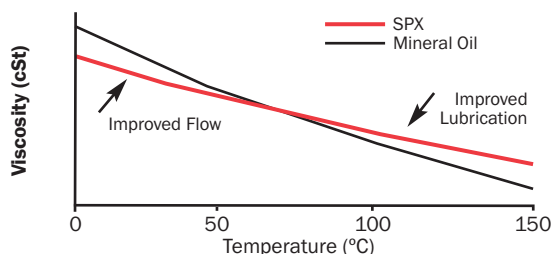
Petro-Canada's SPX 5000 Compressor Fluid is a specially formulated synthetic lubricant which provides enhanced lubrication protection in high temperature and high pressure gas compressor operations. A polyalkylene glycol (PAG) fluid with a premium additive package, SPX 5000 provides excellent performance and operational efficacy in flooded screw compressors and in the lubrication of reciprocating cylinders and packings.

Low ash content, high viscosity index, excellent lubricity, low volatility and shear stability are additional benefits in selecting SPX 5000 instead of standard mineral oils in Natural Gas service and for, propane refrigeration.

Features and Benefits

- **Helps to reduce frequency of expensive overhauls due to corrosion**
 - Select corrosion inhibitors protect equipment from corrosion and yellow metal staining
- **Extends equipment life**
 - High viscosity index provides improved flow characteristics at low temperatures and provides better lubrication protection at high temperatures

**Viscosity-Temperature Relationship
SPX vs Mineral Oil**



SPX Fluids' high viscosity index provide improved flow characteristics at low temperatures and provide better lubrication protection at high temperatures.

- Excellent oxidative and thermal stability
- Excellent lubricity

Applications

SPX 5000 is recommended for:

- **Compression of propane in refrigeration service**
 - Provides good resistance against propane gas dilution
 - Low volatility
 - Excellent low temperature properties
 - Effective lubrication of cylinders and packings in Mycom reciprocating refrigeration compressors
- **Compression of sweet, dry natural gas**
 - In applications where <10% dilution is expected
- **Available in ISO 150 viscosity grade**

SPX 5000 Compressor Fluids can also be used to lubricate reciprocating cylinders and packings in select applications. SPX 5000 Compressor Fluid should not be mixed with mineral oil based lubricants.

For more detailed recommendations on reciprocating cylinder and packing lubrication for various gas streams and conditions, or to convert to an SPX Compressor Fluid, please contact a Petro-Canada Technical Services Advisor.

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	SPX 5000
ISO Grade		150
Density, kg/L at 15 °C	ASTM D4052	0.995
Appearance		Colourless- yellow
Flash Point, COC, °C / °F	ASTM D92	260 / 500
Kinematic Viscosity cSt at 40 °C / 104 °F cSt at 100 °C / 212 °F	ASTM D445	153 23.5
Viscosity Index	ASTM D2270	196
Foam control Seq. 1 Seq. 2 Seq. 3	ASTM D892	0/0 0/0 0/0
Cu corrosion, 3h, 100 °C	ASTM D130	1B
Rust A	ASTM D665A	Pass
Pour Point, °C / °F	ASTM D5950	-33 / -27
Specific Heat BTU/(lb°F) @ 38 °C / 100 °F BTU/(lb°F) @ 93 °C / 200 °F		0.48 0.51
Thermal Conductivity, BTU/hr.ft. °F @ 38 °C / 100 °F BTU/hr.ft. °F @ 93 °C / 200 °F		0.096 0.091

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-8092E (2016.04)

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