



**OUR BUSINESS IS HEAVY DUTY LUBRICANTS**

Tel: (305)681-6110 Fax: (305)681-0906 / Miami, FL 33167 [www.PETRO-FLORIDA.com](http://www.PETRO-FLORIDA.com)

## PRODUCT SPECIFICATIONS & TECHNICAL DATA

### **PETRO-FLO REFRIGERATION COMPRESSOR OILS**

**PETRO-FLO REFRIGERATION COMPRESSOR OILS** is a highly refined naphthenic mineral oil developed primarily for use in reciprocating and rotary screw compressors in refrigeration systems using ammonia, carbon dioxide or non-HFC refrigerants. It also may be used as a general-purpose, light-duty lubricant for industrial machinery operating in cold environments and designed to operate at extremely low temperatures whilst minimizing the build-up of varnish, sludge and waxy deposits which can block filters and affect the performance and efficiency of refrigeration compressors.

**PETRO-FLO REFRIGERATION COMPRESSOR OILS** is manufactured from carefully selected wax-free base stocks to have a low pour point and a low floc point for use in refrigeration system compressors. It has excellent low-temperature properties, good oxidation stability and low carbon-forming tendency to minimize deposit formation, provides good lubricity for protection against wear, and has excellent miscibility with non-HFC refrigerants. It also has good solvency and light color for use as a process oil or as a blending component in other lubricants.

#### **FEATURES / BENEFITS:**

- Excellent low-temperature properties
- Wax-free
- Excellent oxidation stability
- Low carbon-forming tendency
- Excellent miscibility with non-HFC refrigerants
- Excellent lubricity
- Excellent solvency

#### **APPLICATIONS:**

- Compressors in refrigeration systems using ammonia, carbon dioxide or CFC (chlorofluorocarbon) and HCFC (hydrochlorofluorocarbon) refrigerants such as R-717, R-11, R-12, R-13, R-113, R-114, R-115, R-22, R-123, R-141b, R-142b, R-500, R-501 and R-502.
- Plain and rolling-element bearings operating at low temperatures and under light loads
- Drive chains
- Process oil

*Note: **NOT** recommended for use with HFC refrigerants such as HFC-134a.*



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**PETRO-FLO REFRIGERATION COMPRESSOR OILS - TYPICAL ANALYSIS**

**TYPICAL ANALYSIS**

ISO GRADE	22	32	46	68
Specific Gravity @ 60°F	0.898	0.906	0.910	0.915
Density, lbs/gal @ 60°F	7.48	7.53	7.58	7.62
Viscosity cSt @ 40°C	22	32	46	68
Viscosity cSt @ 100°C	3.8	4.9	5.8	7.4
SUS @ 100°F	117	170	255	354
SUS @ 210°F	39.1	42.2	45	49.4
Viscosity Index	20	63	47	58
Flash Point (COC), °C (°F)	174 (345)	202(395)	204(399)	223(433)
Pour Point °C (°F)	-48 (-54)	-45(-49)	-42(-44)	-32 (-26)
Floc Point, °C (°F)	-49 (-56)	-46 (-51)	-43 (-45)	-33 (-27)
Aniline Point, °C (°F)	80 (176)	80 (176)	82 (180)	82 (180)
Electrical conductivity KV	> 40	> 40	> 40	> 40
Neutralization Number	0.01	0.01	0.01	0.01

The above analyses are typical inspections only and the finished product may vary from batch to batch.