



CLEANING FLUID FOR HEAT TRANSFER SYSTEMS

Introduction

Petro-Canada Cleaning Fluid is specially designed to effectively clean dirty heat transfer systems including heavily carbonized systems that are a result of the carbonization of aromatic heat transfer fluids.

The use of Petro-Canada Cleaning Fluid will contribute to a better thermal efficiency of the heat transfer system and it will reduce costly downtime as the system start up time will be much less compared to when water based chemical cleaners are used.

Petro-Canada Cleaning Fluid should be used along with Petro-Canada Flushing Fluid to thoroughly clean and rinse dirty heat transfer fluid systems.

Performance Features and Benefits

- **Specially designed to clean heat transfer systems**
 - Works for systems that contain aromatic based or mineral based heat transfer fluids
- **Reduces down time**
 - The system start up time will be much less than when water based chemical cleaners are used
- **Excellent cleaning properties when used at elevated temperatures and turbulent flow conditions**
- **Improves thermal efficiency**
 - The use of Petro-Canada Cleaning Fluid will contribute to a better thermal efficiency of the heat transfer system

Applications

Petro-Canada Cleaning Fluid is recommended for use in closed heat transfer systems which suffer from carbon formation due to thermal and oxidative degradation, and especially those employing aromatic heat transfer fluids. Carbon formation will reduce the thermal efficiency and may block the proper operation of safety devices. A clean heat transfer system reduces operating costs through efficient operation and provides a safer operation. The recommended upper operating limit for Petro-Canada Cleaning Fluid is 100°C (212°F). Please note that this fluid should not be used in heat transfer systems operating in food processing plants due to residual material which may remain in system following the cleaning process. For more information on proper cleaning procedures, please request the Tech Bulletin for this product (TB-1158E).

What is the HT difference?

Petro-Canada starts with the patented 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	ASTM TEST METHOD	CLEANING FLUID
Density, kg/L at 15°C (60°F)	D4052	0.952
Colour	D1500	3
Flash Point, COC, °C (°F)	D92	139 (282)
Kinematic Viscosity cSt @ 40°C / SUS @ 100°F cSt @ 100°C / SUS @ 210°F	D445	4.9 (43.0) 1.6 (31.3)
Pour Point, °C (°F)	D97	-21 (-6)
Water Separability, 54°C, mL water, (min.)	D1401	40 (5)
GC Distillation, 10%, °C (°F)	D2887	269 (516)
GC Distillation, 90%, °C (°F)	D2887	358 (676)

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

Health and Safety

When using Petro-Canada Cleaning Fluid, ensure proper personal protective equipment is used and adequate ventilation is supplied. These precautions will help to minimize the possibility of eye, skin, and respiratory tract irritation, or other chronic effects.

For additional information, please refer to the Material Safety Data Sheet (MSDS). To obtain an MSDS, contact one of Petro-Canada's TechData Info Lines.

TechData Info Lines

If you would like to know more about Petro-Canada's Cleaning Fluid, or any other product in our complete line of quality lubricants, please contact us at:

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