



CLEANING FLUID FOR HEAT TRANSFER SYSTEMS

Introduction

Petro-Canada Cleaning Fluid is specially designed to help clean dirty heat transfer systems including heavily carbonized systems that are a result of thermal and oxidative degradation of heat transfer fluids.

The use of Petro-Canada Cleaning Fluid will help contribute to a better thermal efficiency of the heat transfer system. This will help to 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 flush 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 oil based heat transfer fluids
- **Helps to reduce 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 (up to 100 °C / 212 °F) and turbulent flow conditions**
- **Helps to improve thermal efficiency**
 - The use of Petro-Canada Cleaning Fluid will contribute to 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 and sludge formation due to thermal and oxidative degradation, and especially those employing aromatic heat transfer fluids. Carbon and sludge 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 guidelines on proper cleaning of fouled heat transfer systems using this product, please request Technical Bulletin TB-1158E.

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	ASTM TEST METHOD	CLEANING FLUID
Density, kg/L at 15 °C (60 °F)	D4052	0.924
Colour, ASTM	D1500	<2
Flash Point, COC, °C (°F)	D92	145 (293)
Kinematic Viscosity cSt @ 40 °C / SUS @ 100 °F cSt @ 100 °C / SUS @ 210 °F	D445	4.67 (43.0) 1.59 (31.3)
Pour Point, °C (°F)	D5950	-15 (5)
Water Separability, 54 °C, mL water, (min.)	D1401	40 (5)
GC Distillation, 10%, °C (°F)	D2887	263 (505)
GC Distillation, 90%, °C (°F)	D2887	335 (635)

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



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