



A HOLLYFRONTIER BUSINESS

TECH DATA

CALFLO™ CLEANING FLUID

FOR HEAT TRANSFER SYSTEMS

INTRODUCTION

CALFLO 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 CALFLO 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.

CALFLO Cleaning Fluid should be used along with CALFLO 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 CALFLO Cleaning Fluid will contribute to better thermal efficiency of the heat transfer system

APPLICATIONS

CALFLO 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 CALFLO Cleaning Fluid is 100°C (212°F). For guidelines on proper cleaning of fouled heat transfer systems using this product, please request Technical Bulletin TB-1158E.

FOOD PROCESSING FACILITIES

- HT1 registered by NSF
- Acceptable for use in food processing facilities
- PURITY™ FG WO White Mineral Oil should be used in food processing facilities as the flushing fluid



Nonfood Compounds
Program Listed HT1
161676

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	CALFLO CLEANING FLUID
Density, kg/L at 15°C (60°F)	D4052	0.853
Colour, ASTM	D1500	<2
Flash Point, COC, °C (°F)	D92	155 (311)
Kinematic Viscosity cSt @ 40°C cSt @ 100°C	D445	7.93 2.2
Pour Point, °C (°F)	D5950	-15 (5)
Water Separability, 54°C, mL water, (min.)	D1401	40 (5)
GC Distillation, 10%, °C (°F) 90%, °C (°F)	D2887	286 (547) 379 (714)

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

Learn more about us: lubricants.petro-canada.com
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Committed to the disciplined operation of our business.



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