



A HOLLYFRONTIER BUSINESS

TECH DATA

CALFLO™ FLUSHING FLUID

FOR HEAT TRANSFER SYSTEMS

INTRODUCTION

To maximize the performance of a heat transfer system, Petro-Canada Lubricants highly recommends flushing the system prior to recharging with a new heat transfer fluid. CALFLO Flushing Fluid is a clear, ultra-pure fluid specifically designed as a flushing agent for heat transfer systems.

Residual fluids remaining in a heat transfer system may be oxidized. Left in place, these residual fluids can increase the acidity of a new fluid and act as a catalyst for oxidation. CALFLO Flushing Fluid flushes residual fluid, including residual Cleaning Fluid, from a heat transfer system prior to system recharging. It also helps displace other system contaminants such as water, loose solids and debris, and dangerous light end components that may have resulted from thermal degradation of the previous fluid.

Thus, flushing with CALFLO Flushing Fluid results in a cleaner and safer system environment, maximizing the performance and the service life of the new fluid, and lowering overall operating costs.

PERFORMANCE FEATURES AND BENEFITS

Excellent mechanical flush

- Minimizes trapped, residual fluids
- Helps to displace system contaminants including water, loose solids and debris
- Creates a clean environment to maximize the performance and service life of the new fluid

Compatible with all grades of CALFLO Heat Transfer Fluids

- Minimal impact on physical properties of most new heat transfer fluids
- Will not add thermally unstable materials or shorten new fluid life
- No reduction in new fluid viscosity, flash point or initial boiling point

Easy disposal*

- Can be disposed of through a number of environmentally acceptable methods such as used oil recycling or heavy fuels burning

CALFLO Flushing Fluid can be heated up to 500°F (260°C) to maximize turbulent flow during the flushing process. When draining hot fluid after flushing, normal safety precautions should be taken to prevent burns and the risk of fire.

NOTES

For highly fouled systems with sludge, deposits and other residues, use CALFLO Cleaning Fluid prior to flushing. For more information, please see the CALFLO Cleaning Fluid TechData sheet (IM-7939).

Systems with hard, insoluble, “baked on” carbon deposits, may require mechanical or abrasive cleaning.

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 FLUSHING FLUID
Density, kg/L at 15°C	D4052	0.864
Colour	D1500	< 0.5
Appearance	Visual Inspection	Clear & Bright
Flash Point, C O C, °C (°F)	D92	222 (432)
Fire Point, °C (°F)	D92	240 (464)
Viscosity, cSt at 40°C / SUS at 100°F	D445	35.6 / 183.3
Viscosity Index	D2270	97
Pour Point, °C (°F)	D5950	-18 (0)
S, wt%	PCM 438	<0.001
Water Separability, 54°C, (min.)	D1401	40-40-0 (5)
Distillation, °C (°F)	D86	392 (738) 500 (932)
10%		
90%		
Coefficient of Thermal Expansion, % / °C (% / °F)		0.1011 (0.0562)
Notes: CAS #	Petroleum Process Streams, API	64742-46-7

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

* Any disposal practice must be in compliance with federal, state, provincial and/or local laws and regulations.

Learn more about us: lubricants.petro-canada.com

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Committed to the disciplined operation of our business.



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