



## PARAFLEX™ HT FLUIDS

### Introduction

Starting with the HT Purity Process, which removes virtually all the undesirable polar and aromatic compounds, Petro-Canada's PARAFLEX HT Process Fluids are composed essentially of saturated hydrocarbons. They are recommended for use as raw materials in the manufacture of a wide range of chemicals, elastomers, and other specialty products.

Compared to competitive process oils, PARAFLEX HT Process Fluids\* are 99.9% pure saturated hydrocarbon mixtures that are crystal clear and have very low toxicity. They offer:

- Outstanding oxidative and thermal stability in the presence of a minimal amount of inhibitor
- Crystal clear appearance
- Very low aromatic levels...less than 0.5%
- Very low toxicity
- Excellent separation from water

\* PARAFLEX HT 3 and 5 are produced in a single stage hydrocracking process. As a result they are higher in aromatic levels (1-5%).

### Features and Benefits

- **Outstanding Oxidative and Thermal Stability in the presence of a minimal amount of inhibitor**
  - Lubricant formulations possible with oxidation resistance 3 to 5 times greater than competitive solvent refined oils
  - Give very low carbon residues

- **High Viscosity Index, with excellent response to VI Improver and Pour Point Depressant additives**
  - Lower VI Improver treatment rates required in engine oil formulations
  - Lubricant Pour Points lowered by as much as 20°C
  - Exceptional low temperature properties
- **Very Light and Clear Colour**
  - Excellent light stability in the presence of a UV stabilizer
  - Ideal for compounding light coloured materials, such as plastics, rubber and inks
- **Very Low Aromatic Levels**
  - PARAFLEX HT Fluids are virtually non-toxic

### Applications

Because of their carefully controlled hydrocarbon contents, Petro-Canada PARAFLEX HT Fluids are recommended for use as raw materials in the manufacture of a range of industrial products including:

- Lubricants
- Chemicals
- Rubber & Plastics
- Leather
- Adhesives
- Polishes
- Plate Glass / Glass Wool

#### What is the HT difference?

Petro-Canada 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	TEST METHOD	PARAFLEX HT FLUIDS										
		3	4	5	9	10	15	22	32	46	68	100
Density, kg/l @ 15°C	D4052	0.845	0.825	0.855	0.830	0.857	0.851	0.847	0.864	0.865	0.867	0.870
Colour, ASTM	D1500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Viscosity, cSt @ 40°C	D445	3.6	3.7	5.7	9.8	11.0	15.5	20.6	35.6	45.9	68.4	101.0
cSt @ 100°C		1.4	1.4	1.8	2.6	2.8	3.5	4.2	5.7	6.8	8.9	11.5
SUS @ 100°F	D2161	38.5	38.8	45.8	60.5	65.4	84.5	108	184	237	354	526
SUS @ 210°F		<32	<32	32.2	34.8	35.3	37.7	40.3	45.0	48.8	55.9	65.3
Viscosity Index	D2270	—	—	—	98	83	100	109	97	103	103	101
Flash Point, °C	D92	126	135	151	180	179	199	210	216	216	240	270
Pour Point, °C	D5950	-24	-57	-12	-39	-24	-24	-21	-18	-15	-15	-15
Demusibility @54°C mL of water separated (minutes)	D1401	40 (5)	40 (5)	40 (5)	40 (5)	40 (5)	40 (5)	40 (5)	40 (5)	40 (5)	40 (5)	40 (5)
Aniline Point, °C	D611	76.5	90	82	103	96	100	110	109	109	118	123
Aromatics, wt %	PCM 435	2.2	<0.5	3.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

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

## Health and Safety

When used as directed, Petro-Canada PARAFLEX HT Fluids have no adverse effects on health. Beyond normal hygiene, no special precautions are required. To obtain Material Health and Safety Data Sheets, contact one of Petro-Canada's TechData Info Lines.



## TechData Info Lines

If you are an **existing customer** looking to place an order, please call a Customer Order Management Representative at:

**Canada (English)** . . . . . Phone 1-800-268-5850  
**(French)** . . . . . Phone 1-800-576-1686  
**United States** . . . . . Phone 1-877-730-2369  
**Latin America/Europe/Asia** . . . . . Phone +1-866-957-4444

You can also e-mail us at [lubecsr@suncor.com](mailto:lubecsr@suncor.com)

If you would like to **become a Petro-Canada lubricants customer** and require more information about specialty fluids, oils and greases that can help maximize your equipment performance, savings and productivity, please contact us at:

**North America** . . . . . Phone 1-866-335-3369  
**Europe** . . . . . Phone +44 (0) 121-781-7264  
**Germany** . . . . . Phone 0800-589-4751  
**China** . . . . . Phone +86 (21) 6362-0066

Visit us on the web at [lubricants.petro-canada.com](http://lubricants.petro-canada.com)