



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 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	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 cSt @ 100°C SUS @ 100°F SUS @ 210°F	D445	3.6	3.7	5.7	9.8	11.0	15.5	20.6	35.6	45.9	68.4	101.0
		1.4	1.4	1.8	2.6	2.8	3.5	4.2	5.7	6.8	8.9	11.5
	D2161	38.5	38.8	45.8	60.5	65.4	84.5	108	184	237	354	526
		<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.

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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