



PRODUCT DATA SHEET



RAYLENE® ASHLESS MULTI-VISCOSITY HYDRAULIC OIL

Raylene Ashless Multi-Viscosity Hydraulic Oil is a high performance, zinc-free hydraulic oil. The product's high Viscosity Index promotes excellent low temperature fluidity as well as high temperature viscosity stability. The exceptional anti-wear property of **Raylene Ashless Multi-Viscosity Hydraulic Oil** reduces component wear, and its ashless formula eliminates metallic additive deposits for clean and trouble-free operation. The excellent demulsibility characteristic of **Raylene Ashless Multi-Viscosity Hydraulic Oil** promotes rapid and complete water separation for easy drainage. **Raylene Ashless Multi-Viscosity Hydraulic Oil** meets the requirements of most major OEMs for zinc-free hydraulic oils as well as Denison HF-0, DIN 51524 Part 3 (HVLP) and ISO 6743-4 (L-HV) specifications.

Applications

- ◆ Recommended for applications where DIN 51524 Part 3 (HVLP) and ISO 6743-4 (L-HV) ISO VG 22 and VG 46 oils are required
- ◆ Recommended for hydraulic systems with vane, piston or gear type pumps
- ◆ Recommended for circulating systems

Features and Benefits

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| ◆ Ashless | No metallic residues or deposits. Clean operating. Promotes efficient component operation. |
| ◆ Oxidation stability | Significantly extends oil service life and protects tight machine clearances from deposits or varnish. |
| ◆ Superior anti-wear protection | Reduces hydraulic pump and system component wear for extended component life and reduced costs. Suitable for use in circulation systems. |
| ◆ Excellent demulsibility | Rapid water separation for easy drainage from the hydraulic tank promoting consistent system pressure. |
| ◆ High viscosity shear stability | Maintains viscosity providing maximum component protection and extended drain intervals. |
| ◆ Red or green in color | Easy leak detection. |

General Description

Raylene Ashless Multi-Viscosity Hydraulic Oil is formulated from highly refined petroleum, high Viscosity Index base oils, incorporating anti-wear additives, corrosion and oxidation inhibitors, viscosity modifiers and foam suppressants.

Product No. 71200, 71750

RAYLENE® ASHLESS MULTI-VISCOSITY HYDRAULIC OIL

TYPICAL PROPERTIES

<u>Product No.</u>	<u>71200</u>	<u>71750</u>
ISO Viscosity Grade	22	46
Viscosity, ASTM D445		
@ 40°C, cSt	21.8	44.6
@ 100°C, cSt	5.17	7.77
Viscosity, ASTM D2161		
@ 100°F, SUS	113	228
@ 210°F, SUS	43.0	52.2
Viscosity Index, ASTM D2270	180	144
Pour Point, ASTM D97		
°C	-63	-45
(°F)	(-81)	(-49)
Copper Strip Corrosion, ASTM D130		
3 hrs @ 100°C, rating	1a	1a
Rust Test, ASTM D665, Procedure A	Pass	Pass
Procedure B	Pass	Pass
Demulsibility, ASTM D1401		
Oil/water/emulsion (time), ml/ml/ml (min)	40/40/0 (15)	40/40/0 (15)
Foam Test, ASTM D892, Sequence I, II, III	Nil	Nil
Oxidation Lifetime, ASTM D943, hrs	2688	2688
Total Acid Number, ASTM D974, mg KOH/g	0.72	0.72
Falex EP Test, ASTM D3233 Method B		
Non-seizure Load, lbf	3000	2500
Denison Pump Test, T6H20C		
Mass Loss, mg	6.7	6.7

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Vickers 35VQ25 Vane Pump Test, ASTM D6973		
Mass Loss, mg	24	24
FZG Visual Test, ASTM D5182		
Failure Load Stage	12	12
Filterability, Denison TP-02100-A		
A – Filtration Test Without Water, second	123	123
B – Filtration Test With 2% Water, second	184	184
Shear Stability Test (KRL), CEC L-45-T		
20 h, Viscosity Loss, %	11.9	11.9
Specific Gravity, ASTM D1298, 60/60°F	0.850	0.865
Appearance	Clear liquid	Clear liquid
Color	Red	Green