



35585 Curtis Boulevard • Eastlake, Ohio 44095 • (440) 951-8633 • (440) 951-4341 FAX

EnviroLogic[®] CO-100

Stabilized Castor Oil Based Hydraulic Fluid

Description

EnviroLogic[®] CO-100 is a castor oil based hydraulic fluid designed for use in general purpose hydraulic systems. EnviroLogic[®] CO-100 is castor oil based and is suitable for use in equipment which utilizes polyisoprene elastomer components in application. EnviroLogic[®] CO-100 is stabilized against both hydrolysis and oxidation and is superior in performance to standard #1 castor oil products. EnviroLogic CO-100 exceeds the requirements of the ASTM D960-79 specifications for castor oil used in industrial applications.

Typical Properties

Flash Point, °F	ASTM D-92	>400
Specific Gravity, 60°F	ASTM D-1122	0.92
Degrees API		22.3
Viscosity @ 40°C, cSt.	ASTM D-445	225
Viscosity @ 100°C, cSt.	ASTM D-445	18.3
Viscosity Index	ASTM D-2270	200
Pour Point, °C	ASTM D-97	-23

Performance Properties

	<u>EnviroLogic CO-100</u>	<u>#1 Castor oil</u>
<u>Oxidative Stability (ASTM 2272)</u>		
RBOT (min.)	42	28
<u>Hydrolytic Stability (ASTM D2619)</u>		
H2O acidity	3.9	5.1
%change TAN	-15	+31
Cu wt. (initial)	4.29	4.29
Cu wt. (final)	4.29	4.29
mg. Cu loss	0.0	0.0
Cu appearance	1-B	1-B
<u>Polyisoprene Compatibility</u>		
1-week immersion @		
100C	no change	no change
150C	no change	no change



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Polyisoprene Elastomer Compatability

<u>Product ID</u>	<u>EnviroLogic CO-100</u>	<u>Hydrocracked VHVI R&O 220</u>	<u>PAO Synthetic AWH</u>		
Test Properties					
Elastomer Type	Polyisoprene	Polyisoprene	Polyisoprene		
Time (hrs)	240	240	240		
Temperature (Centigrade)	100	100	100	<u>Dexron III ATF</u>	DIN 51524, <u>Part 2</u>
% Volume Change (ASTM D471)	5.4	145.5	149.4	0 - 6	0 - 12
Durometer Change (ASTM D2240)	-6	-44	-49	NR	NR
Visual	No Change	Immense Swelling	Immense Swelling		



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