

HIGH PERFORMANCE, ECOLABEL CERTIFIED ISO 46 HYDRAULIC FLUID

Description

RSC *FUTERRA* HF 46 is a synthetic, Ecolabel, ISO 46 grade hydraulic fluid formulated to withstand extreme conditions and corrosion while operating in severe outdoor environments. It is intended for severe service, extreme high temperature (250°F/121°C), low temperature (-40°F/-40°C) and high pressure (5000+psi/34,470 kPa) applications.

Its excellent oxidative and hydrolytic stability and near zero foaming tendency ensure that the fluids will last much longer than other EALs and conventional oils. RSC *FUTERRA* HF 46 offers greater flexibility and the ultimate system compatibility – offering drop-in replacement and broad seal compatibility. It was formulated for industrial applications where incidental environmental exposure of the lubricant is a cause for concern, as it is readily biodegradable and non-sheening*.

RSC *FUTERRA* HF series meets the requirements for a growing list of manufacturers. Visit our [website](#) or contact customer service for a full list of OEM approvals.

Property	Method	Requirements	Result
Kinematic Viscosity			
At 40°C, cSt	D445	41.4-50.6	46
At 100°C, cSt	D445	7.8 min	7.98
Viscosity Index	D2270	90 min	140
Density(60°F)	D1298	report	0.837
Pour Point, °C	D97	-15 max	-51
Flash Point (COC), °C	D92	185 min	226
Acid Number, mgKOH/g	D664	Report	0.89
Steel Pin Corrosion (3 hours, 100°C)	D665	Pass	
Deionized Water			Pass
Synthetic Salt Water			Pass
Foam Properties (after 10 minutes)	D892		
Sequence I, mL	Tendency/Stability	50-0 max	0-0
Sequence II, mL	Tendency/Stability	50-0 max	10-0
Sequence III, mL	Tendency/Stability	50-0 max	0-0
Demulse Properties (54°C)	D1401		
Oil / Water / Emulsion		40 / 37 / 3	40 / 40 / 0
Minutes		30	10
Copper Corrosion	D130		
3hrs @ 100 °C		2 max	1a

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Property	Method	Requirements	Result
Oxidation Mins to 25 psi loss	D2272		1200
Oxidation	D943		>1000 hrs
Oxidation	D943M		>9000 hrs
FZG		10 min.	12
Hydrolytic Stability	D2619		
Copper Weight Loss, mg/cm ³			0.00
Change in Acid Number, mgKOH/g			<4.0
Appearance of Copper Panel			1b
Vickers 35VQ25 Vane Pump	35VQ25		Pass
Vickers V104C Vane Pump			
Total loss of ring and vane, mg			Pass
Denison T6H20C Pump (HF-1, HF-2, HF-6)			Pass
Biodegradability, % in 28 Days			>60
Ecotoxicity			
Fathead minnow, 96h LC50, ppm	OECD 201	>100	>10,000
Daphnia magna, 48h EC50, ppm	OECD 202	>100	>10,000
Algae, 72h EC50, ppm	OECD 203	>100	>1,000
Elastomer SRE-NBR-1 (80°C 1000 hours)	ISO 6072		Pass
Elastomer HNBR (100°C 1000 hours)	ISO 6072		Pass
Elastomer FKM (100°C 1000 hours)	ISO 6072		Pass

*CFR40 Part 435B

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For more information about RSC Bio Solutions, visit us at rscbio.com or call +1 704.684.6100.



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