



RUST-INHIBITED PETROLEUM HYDRAULIC FLUID

NATO CODE C-635 - MIL-PRF-6083 G

DCSEA 535/A - DEF STAN 80-142 Iss.2 - PX-26

DESCRIPTION

Hydraunycoil FH 6 is a petroleum-based hydraulic fluid with a viscosity of 15 cSt at 40°C and a viscosity index exceeding 300. It exhibits strong anti-rust properties.

Hydraunycoil FH 6 is micro-filtered and is supplied with a controlled particulate contamination. It can be used over an extremely wide temperature range, from -54°C to +135°C in air-tight circuits.

APPLICATIONS

Hydraunycoil FH 6 is intended primarily for use as a preservative medium for aircraft hydraulic systems and components and as an operational preservative fluid for ordnance equipment such as recoil systems and hydraulic systems for rotating weapon or aiming devices.

CHARACTERISTIC	UNIT	TYPICAL RESULT	DEF STAN 80-142/2 LIMIT	TEST METHOD
Appearance	-	conform	clear, homogeneous, free from visible impurities	visual examination
Colour	Lovibond Red	27	20 - 40	IP 71
Density at 20°C	-	0.853	-	ASTM D 4052
Kinematic viscosity at 100°C	mm ² /s	5.7	min. 4.0	ASTM D 445
at 40°C		15.2	min. 13.0	
at -40°C		470	max. 500	
at -54°C		2160	max. 3000	
Stability, 72h at -54°C	-	pass	conform	FTM-S-791-3458
Flash point, PM	°C	91	min. 81	ASTM D 93
Pour point	°C	-66	max. -60	ASTM D 97
Total acid number	mg KOH/g	0.04	-	ASTM D 664
Evaporation loss, 6 h at 71°C	% w	15.8	max. 20	ASTM D 972
Copper corrosion, 2 h at 100°C	-	2	max. 2	IP 154
Water content	mg/kg	160	max. 500	ASTM D 1533
Steel-on steel wear, 1h at 40 kg	mm	0.97	max. 1.5	IP 239
Solid particle content 5 - 15 µm 15 - 25 µm 25 - 50 µm 51 - 100 µm > 100 µm	nb/100 cm ³	2000	max. 10000	HIAC automatic counter
		480	max. 1000	
		70	max. 150	
		12	max. 20	
		1	max. 5	
Humidity Cabinet Test	h	340	min. 100	ASTM D 1748
Elastomer NBR-L compatibility, 168 h at 70°C	% v	24	19 to 30	FTM-S-791-3603
Foaming test (tendency/stability) at 24°C at 94°C at 24°C after 94°C	cm ³ /min	50/0	max. 100/0	ASTM D 892
		35/0	max. 100/0	
		50/0	max. 100/0	

The values above are typical values. They do not constitute any contractual commitment.

Sales specifications are available on request. The present technical data sheet replaces all the previous editions.