



RUST-INHIBITED PETROLEUM HYDRAULIC FLUID

NATO CODE C-635

DESCRIPTION

Hydraunycoil FH 6 is a petroleum-based hydraulic fluid with a viscosity of 14 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.

SPECIFICATIONS / OEM's & Airframers reference

- Approved MIL-PRF-6083 G
- Meets DCSEA 535/A (obs)
- Equivalent to DEF STAN 80-142 Iss.2 / PX-26
- Listed in Airbus CML 02BBB9
- Listed in Boeing CML D00106
- Listed in Airbus Helicopters CM117

* **Approved:** The product has been approved by the relevant authority. The product is referenced on the applicable qualified product list.
Meets: The product complies with all the requirements of the specification and has not been formally approved or approval is in progress or the specification is obsolete.
Equivalent: The product complies with the major requirements of the specification

CHARACTERISTIC	UNIT	TYPICAL RESULT	MIL-PRF-6083 G LIMIT	TEST METHOD
Appearance	-	conform	Red, clear, homogeneous, free from visible impurities	visual examination
Colour	Lovibond Red	5	max. 5	ASTM D1500
Density at 20°C	-	0.871	-	ASTM D4052
Kinematic viscosity at 100°C at 40°C at -40°C at - 54°C	mm ² /s	5.0 14.0 600 3250	min. 4.6 min. 13.2 max. 700 max. 3300	ASTM D445
Stability, 72h at - 54°C	-	pass	conform	FTM-S-791-3458
Flash Point, PM	°C	91	min. 81	ASTM D93
Pour Point	°C	- 69	max. - 59	ASTM D97
Total Acid Number	mg KOH/g	0.10	max. 0.20	ASTM D664
Evaporation Loss, 22 h at 100°C	% w	64	max. 75	ASTM D972

CHARACTERISTIC	UNIT	TYPICAL RESULT	MIL-PRF-6083 G LIMIT	TEST METHOD
Copper Corrosion, 72 h at 100°C	-	1b	max. 2e	ASTM D130
Water Content	mg/kg	100	max. 500	ASTM D6304
Steel-on steel wear, 1h at 40 kg	mm	0.9	max. 1.0	ASTM D4172
Solid Particle Content 5 - 25 µm 25 - 50 µm 51 - 100 µm > 100 µm	nb/100 cm ³	2000 50 5 1	max. 10000 max. 250 max. 50 max. 10	FTM-S-791-3012 HIAC automatic counter
Humidity Cabinet Test	h	Sandblasted 400 Polished 340	min. 100	ASTM D1748
Elastomer NBR-L Swell after 168h at 70°C	% v	22	19 to 31	ASTM D4289
Foaming Test (tendency/stability) at 24°C at 94°C at 24°C after 94°C	cm ³ /min	50/0 20/0 30/0	max. 65/0 max. 65/0 max. 65/0	ASTM D892

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.