



Hydrauncoil FH 51

PETROLEUM HYDRAULIC FLUID

**OM-15 – H-515 – DCSEA 415/A – MIL-PRF-5606 H
DEF STAN 91-48 Iss.2 (OM-15)**

Description

Hydrauncoil FH 51 is a petroleum-based hydraulic fluid with a viscosity of 14 cSt at 40°C. It contains anti-corrosion and anti-wear additives.

Hydrauncoil FH 51 has an extremely wide operating temperature range (from - 54°C to + 135°C in air-tight circuits and - 54°C to + 90°C in open circuits) and a viscosity index exceeding 300. It is microfiltered and is supplied with a controlled level.

Application

Hydrauncoil FH 51 is used in hydraulic systems of military aircraft (jet fighters, transport aircraft, helicopters) or missiles, as well as general purpose hydraulic fluid for ground equipment (tanks, artillery...).

It is also recommended as shock strut fluid for many commercial aircraft landing gears (Airbus, ATR, Bombardier, Fokker, Embraer, etc.).



Characteristic	Unit	Result	Limit*	Test method
- Appearance	-	conform	MIL-H-5606	visual examination
- Color	-	conform	MIL-H 5606	-
- Specific gravity at 15°C	kg/dm ³	0.874	report	ASTM D 4052
- Kinematic viscosity at 100°C 40°C - 40°C - 54°C	mm ² /s	5.25 13.8 405 1835	min. 4.90 min. 13.2 max. 600 max. 2500	ASTM D 445
- Stability 72 h at - 54°C	-	conform	MIL-H-5606	FTM-S-791-3458
- Flash point, PM	°C	94	min. 82	ASTM D 93
- Pour point	°C	- 66	max. - 60	ASTM D 97
- Acid number (pH = 11)	mg KOH/g	0.03	max. 0.20	ASTM D 664
- Evaporation loss 6 h at 71°C	% weight	17.0	max. 20.0	ASTM D 972
- Copper corrosion 72 h at 135°C	-	2a	max. 2e	ASTM D 130
- Water content	mg/kg	63	max. 100	MO-10-001 A
- Steel-on steel wear	mm	0.88	max. 1.0	ASTM D 4172
- Foaming test at 24°C Tendency Stability (after 10 min)	cm ³	40 0	max. 65 0	ASTM D 892
- Solid particles Filtration time Particle counting 5 to 15 microns 15 to 25 microns 26 to 50 microns 51 to 100 microns > 100 microns	min/100cm ³ nb/100 cm ³	5 pass pass pass pass pass	max. 15 max. 10000 max. 1000 max. 150 max. 20 max. 5	FTM-S-791-3009 HIAC

* Specification MIL-PRF-5606 H

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.