

## PETROLEUM HYDRAULIC FLUID

## AMG-10

### DESCRIPTION

Hydraunycoil 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.

Hydraunycoil 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) with a viscosity index exceeding 300. It is microfiltered and is supplied with a controlled level.

### APPLICATIONS

Hydraunycoil FH 51 is used in the main hydraulic system of military aircraft (jet fighters, transport aircraft, helicopters) and civil aircraft of Russian or Ukrainian origin (Tupolev, Antonov, Mig, Sukhoi, Mil, Ilyushin).

It is also used as recoil hydraulic fluid for ground equipment (tanks, artillery).

Hydraunycoil FH 51 has been extensively tested and is approved by GOSNII GA (Russian civil aviation authority) as an analogue to the Russian fluid AMG-10.

### SPECIFICATIONS \* / OEM's & Airframers reference

- Analog to AMG-10

- Analog to GOST 6794-75

\* **Analog:** The product complies with the major requirements of the Russian specification. The product is referenced on the product list recommended for Russian aviation by the Central Institute of Aviation Motors (CIAM).

CHARACTERISTIC	UNIT	TYPICAL RESULT	MIL-PRF-5606 LIMIT	TEST METHOD
Appearance	-	Conform	MIL-PRF-5606	visual examination
Color	-	Conform	MIL-PRF- 5606	-
Density at 15°C	kg/dm <sup>3</sup>	0.874	report	ASTM D4052
Kinematic Viscosity				
at 100°C		5.39	min. 4.90	
at 40°C	mm <sup>2</sup> /s	14.12	min. 13.2	ASTM D445
at - 40°C		444	max. 600	
at - 54°C		2012	max. 2500	
Stability 72 h at - 54°C	-	Conform	No gelling, clouding, crystallization, solidification or separation	FTM-S-791-3458
Flash Point, PM	°C	91	min. 82	ASTM D93
Pour Point	°C	- 69	max. - 60	ASTM D97
Total Acid Number	mg KOH/g	0.04	max. 0.20	ASTM D664
Evaporation Loss, 6 h at 71°C	% weight	16.2	max. 20.0	ASTM D972
Copper Corrosion, 72 h at 135°C	-	2a	max. 2e	ASTM D130
Water Content	mg/kg	57	max. 100	ASTM D1533
Steel-on steel wear	mm	0.88	max. 1.0	ASTM D4172
Foaming Test at 24°C				
Tendency	cm <sup>3</sup>	42	max. 65	ASTM D892
Stability (after 10 min)		0	0	
Particle Counting				
5 to 15 microns		2700	max. 10000	
15 to 25 microns		150	max. 1000	
26 to 50 microns	min/100cm <sup>3</sup>	40	max. 150	FTM-S-791-3009
51 to 100 microns	nb/100 cm <sup>3</sup>	10	max. 20	HIAC automatic counter
> 100 microns		1	max. 5	
Filtration Time		5	max. 15	

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.