



DESCRIPTION

Hydraunycoil FH 19 is a petroleum-based hydraulic fluid with a viscosity of 25 cSt at 40°C and a viscosity index exceeding 350. It exhibits mild anti-rust properties.

Hydraunycoil FH 19 can be used over an extremely wide temperature range, from - 35°C to + 135°C in air-tight circuits.

APPLICATIONS

Hydraunycoil FH 19 is intended primarily for use on ordnance equipment such as recoil systems and hydraulic systems for rotating weapon or aiming devices on Navy vessels.

SPECIFICATION / OEM'S & AIRFRAMERS REFERENCE

- Approved MIL-DTL-17111 E

* **Approved:** The product has been approved by the relevant authority. The product is referenced on the applicable qualified product list.

CHARACTERISTIC	UNIT	TYPICAL RESULT	MIL-DTL-17111 E LIMIT	TEST METHOD
Appearance	-	conform	limpid	visual examination
Color	-	0.5	max. 2	ASTM D1500
Density at 20°C	kg/dm ³	0.876	report	ASTM D4052
Kinematic Viscosity at 100°C 40°C - 20°C - 35°C	mm ² /s	8.97 26.3 296 863	mini. 8.00 min. 25.0 max. 500 max. 1000	ASTM D445
Stability 72h at - 37°C	-	pass	MIL-DTL-17111	MIL-DTL-17111
Flash Point, COC	°C	108	min. 104	ASTM D92
Fire Point	°C	115	min. 113	ASTM D92
Pour Point	°C	- 60	max. - 40	ASTM D97
Total Acid Number	mg KOH/g	0.03	max. 0.30	ASTM D974
Evaporation Loss, 6 h at 66°C	% w	10.0	max. 15	ASTM D972
Precipitation Number	-	0.01	max. 0.05	ASTM D91
Steel-on steel wear, 1h at 40 kg	mm	0.73	max. 1.0	ASTM D4172
Oxidation Test, 72h at 93°C KV100°C Change KV - 20°C Change Acid Number Change Acid Number Change of water layer	% % % mgKOH/g	0.2 8.3 0.02 0.1	0.0 to 15.0 0.0 to 15.0 max. 0.50 max. 0.50	MIL-DTL-17111
- Baryum content - Calcium content - Zinc content	mg/kg	34 0 0	- - -	ASTM D5185 (ICP-AES)
Corrosion Test	-	pass	no corrosion	ASTM D665A
Water Content	%	0.0 (50 mg/kg)	0.0	ASTM D1533

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.