



HIGH VISCOSITY INDEX PETROLEUM HYDRAULIC FLUID

NATO CODE H-575 – MIL-DTL-17111E

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.



APPLICATION

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.

Characteristic	Unit	Typical Result	MIL-DTL-17111 E Limit	Test method
- Appearance	-	conform	limpid	visual examination
- Color	-	0.5	max. 2	ASTM D 1500
- Density at 20°C	kg/dm ³	0.880	report	ASTM D 4052
- 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 D 445
- Stability 72h at - 37°C	-	pass	MIL-DTL-17111	MIL-DTL-17111
- Flash point , COC	°C	108	min. 104	ASTM D 92
- Fire point	°C	115	min. 113	ASTM D 92
- Pour point	°C	- 60	max. - 40	ASTM D 97
- Total acid number	mg KOH/g	0.03	max. 0.30	ASTM D 974
- Evaporation loss, 6 h at 66°C	% w	10.0	max. 15	ASTM D 972
- Precipitation number	-	0.01	max. 0.05	ASTM D 91
- Steel-on steel wear, 1h at 40 kg	mm	0.73	max. 1.0	ASTM D 4172
- 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		34	-	ASTM D 5185 (ICP-AES)
- Calcium content	mg/kg	0	-	
- Zinc content		0	-	
- Corrosion Test	-	pass	no corrosion	ASTM D 665A
- Water content	%	0.0 (50 mg/kg)	0.0	ASTM D 1533

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.

