



## HIGH VISCOSITY INDEX PETROLEUM HYDRAULIC FLUID

NATO CODE H-575

MIL-DTL-17111E

### DESCRIPTION

Hydrauncoil 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.

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

### APPLICATIONS

Hydrauncoil 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 <sup>3</sup>	0.880	report	ASTM D 4052
Kinematic viscosity at 100°C	mm <sup>2</sup> /s	8.97	mini. 8.00	ASTM D 445
40°C		26.3	min. 25.0	
- 20°C		296	max. 500	
- 35°C		863	max. 1000	
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				MIL-DTL-17111
KV100°C change		0.2	0.0 to 15.0	
KV - 20°C change	%	8.3	0.0 to 15.0	
Acid number change	%	0.02	max. 0.50	
Acid number change of water layer	mgKOH/g	0.1	max. 0.50	
- 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.