



INSTRUMENT MINERAL LUBRICATING OIL

NATO CODE O-142 - MIL-PRF-7870E - DEF STAN 91-47 Iss.1 - OM 12

AIRBUS CML 03BBB1, 03BDB9 - ATR CML 03-001 - BOEING CML D00091

DESCRIPTION

Nycolube 7870 is a mineral lubricating oil with a viscosity of 10 cSt at 40°C. It is inhibited against oxidation and corrosion.

APPLICATIONS

- Corrosion preventive oil for instruments and electronic equipment like automatic pilot.
- Multipurpose lubricating oil for military and civil aircrafts and helicopters (pins, locks, etc.)



CHARACTERISTIC	UNIT	TYPICAL RESULT	MIL-PRF-7870E LIMIT	TEST METHOD
Appearance	-	Limpid colorless oil	Limpid Homogeneous	Visual examination
Color	-	1.0	max. 5.0	ASTM D1500
Density at 20°C	kg/dm ³	0.87	-	ASTM D4052
Kinematic viscosity at 38°C at 40°C at -40°C	mm ² /s	11.0 10.3 3540	mini. 10 - max. 4000	ASTM D445
Pour point	°C	-63	max. -57	ASTM D97
Flash point, COC	°C	150	min. 130	ASTM D92
Acid number	mg KOH/g	0.05	Report	ASTM D974
Precipitation number	mL	0.0	0.0	ASTM D91
Evaporation loss, 22h at 100°C	%w	19	max. 25	ASTM D972
Stability at low temperature, 72h at -54°C	-	Pass	MIL-PRF-7870E	MIL-PRF-7870E
Corrosion protection, humidity cabinet	h	210	min 100	ASTM D1748
Corrosion and oxidative stability 168 h at 121°C				
Acid number change	mg KOH/g	0.05	max. 0.2	ASTM D4636
Viscosity at 40°C change	%	0.0	-5 to +20	
Metal weight change	-			
cadmium	mg/cm ²	0.0	max. +/- 0.2	
copper	mg/cm ²	0.0	max. +/- 0.2	
steel	mg/cm ²	0.0	max. +/- 0.2	
aluminium	mg/cm ²	0.0	max. +/- 0.2	
magnesium	mg/cm ²	0.0	max. +/- 0.2	

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.