



INSTRUMENT MINERAL LUBRICATING OIL

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

DESCRIPTION

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

MAIN APPLICATIONS

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



Airbus CML 03BBB1
Airbus CML 03BDB9
ATR CML 03-001

Characteristic	Unit	Typical Result	MIL-PRF-7870D Limit	Test method
- Appearance	-	Limpid colorless oil	Limpid Homogeneous	Visual examination
- Color	-	1.0	max. 5.0	ASTM D 1500
- Density at 20°C	kg/dm ³	0.87	-	ASTM D 4052
- Kinematic viscosity at 38°C 40°C -40°C	mm ² /s	11.0 10.3 3540	mini. 10 - max. 4000	ASTM D 445
- Pour point	°C	-63	max. -57	ASTM D 97
- Flash point , COC	°C	150	min. 130	ASTM D 92
- Acid number	mg KOH/g	0.05	Report	ASTM D 974
- Precipitation number	mL	0.0	0.0	ASTM D 91
- Evaporation loss, 22h at 100°C	%w	19	max. 25	ASTM D 972
- Stability at low temperature, 72h at -54°C	-	Pass	MIL-PRF-7870D	MIL-PRF-7870D
- Corrosion protection, humidity cabinet	h	210	min 100	ASTM D 1748
- Corrosion and oxidative stability 168 h at 121°C				
Acid number change	mg KOH/g	0.05	max. 0.2	
Viscosity at 40°C change	%	0.0	-5 to +20	
Metal weight change cadmium	mg/cm ²	0.0	max. +/- 0.2	ASTM D 4636
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.

