



INSTRUMENT MINERAL LUBRICATING OIL

NATO CODE O-142

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.)

SPECIFICATIONS * / OEM's & Airframers reference

- Approved MIL-PRF-7870 E
- Approved DEF STAN 91-47 Iss. 1 / OM-12
- Listed in Airbus CML 03BBB1
- Listed in Airbus CML 03BDB9
- Listed in ATR CML 03-001
- Listed in Boeing CML D00091

* **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-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 | mm ² /s | 11.0 | mini. 10 | ASTM D445 |
| at 40°C | | 10.3 | - | |
| at -40°C | | 3540 | max. 4000 | |
| 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.