NYCO
AERONAUTICS & DEFENCE

TECHNICAL DATA SHEET

# TURBONYCOIL 3512

## HIGH VISCOSITY MINERAL LUBRICATING OIL

**NATO CODE O-138 – AIR 3512/A Iss. 2 – DEF-STAN 91-97 Gr. 2479/0, OM-71**

## DESCRIPTION

Turbonycoil 3512 is a gas turbine lubricating oil based on mineral oil. It has a viscosity of 9 cSt at 100℃ and contains addi tives to improve the low temperature fluidity and prevent foaming.

## APPLICATIONS

- Helicopter systems
- Helicopter gear box
- Gear and transmission oils
- Turbine oil (power plant, APU, starter, IDG…)
- Highly loaded propeller reduction gear of turboprop engines (Alouette II)
- Artillery equipment

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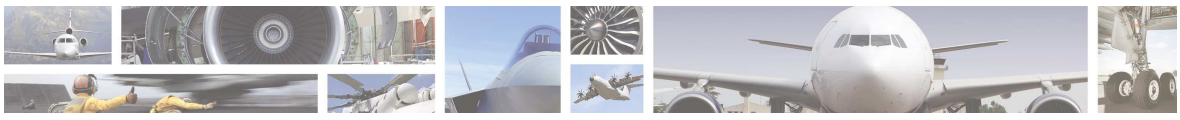
| Characteristic | Unit | Typical Result | AIR 3512/A Limit | Test method |
|---|---|---|---|---|
| - Appearance | - | Pass | Limpid | Visual examination |
| - Density at 20℃ | kg/dm$^3$ | 0.881 | Report | ASTM D 4052 |
| - Kinematic viscosity<br>At 100℃<br>At 40℃ | mm²/s | <br>8.67<br>64.9 | <br>8.50 - 9.10<br>Report | ASTM D 445 |
| - Viscosity index | - | 106 | min. 105 | ASTM D 2270 |
| - Pour point | ℃ | - 33 | max. - 29 | ASTM D 97 |
| - Flash point | ℃ | 242 | min. 210 | ASTM D 92 |
| - Acid number | mg KOH/g | 0.03 | max. 0.10 | ASTM D 974 |
| - Saponification number | mg KOH/g | 0.5 | max. 1.0 | ASTM D 94 |
| - Copper corrosion, 3 h at 100℃ | - | 1a | max. 1b | ASTM D 130 |
| - Ash content | %w | 0.004 | max. 0.010 | ASTM D 482 |
| - Foaming test (tendency after 5 min aeration / stability after 10 min settling)<br>at 24℃<br>at 94℃<br>at 24℃ after 94℃ | cm$^3$/cm$^3$ | <br>5/0<br>0/0<br>5/0 | <br>max. 40 / 0<br>max. 120 / 0<br>max. 40 / 0 | ASTM D 892 |

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.



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