NYCO DEFENCE

TECHNICAL DATA SHEET

NYCOPROTEC 8188

AIRCRAFT ENGINE, PRESERVATIVE OIL

NATO CODE C-638 – MIL-PRF-8188 D

DESCRIPTION

Nycoprotec 8188 is a 3 cSt oil at 100℃ and is made of neopolyol esters, anti-oxydant, anti-wear and corrosion inhibitors.

APPLICATION

Nycoprotec 8188 is designed to provide protection against corrosion in gas turbine engine lubrication system during storage.

Due to its chemical nature and characteristics very close from that of turbine oils, it is not required to flush the lubrication system prior to filling with the turbine oil for the operation of the gas turbine.

It is compatible with turbine oils complying with MIL-PRF-7808, MIL-PRF-23699 and DoD-L-85734 specifications.

Characteristic	Unit	Typical Result	MIL-PRF-8188 D Limit	Test method
- Appearance	-	conform	limpid	visual examination
- Density at 20℃	kg/dm^3	0.961	report	ASTM D 4052
- Kinematic viscosity at 100℃ 40℃ - 51℃ after 35 min. after 3 h	 mm²/s 	 3.4 13.9 12120 12120	 min. 3.25 min. 11.5 max. 17000 max. 17000	ASTM D 445 ASTM D 2532
- Acid number (pH = 11)	mg KOH/g	0.33	max. 0.50	ASTM D 664
- Flash point	℃	226	min. 210	ASTM D 92
- Evaporation loss, 6 h 30 at 205℃	%w	10	max. 30	ASTM D 972
- Static foam test Foam volume Collapse time	 cm^3 s	 70 30	 max. 100 max. 60	FTM-S-791-3213
- Humidity Cabinet	h	pass	mini. 144 h	ASTM D 1748
- Lead corrosion, after 1 h at 163℃	g/m²	- 11	max. +/- 40	FTM-S-791-5321
- Oxidation and corrosiveness test 48 h at 200℃ Acid number increase Viscosity change (at 40℃) Corrosion Aluminium Silver Steel M/50 Iron Titanium Brass Magnesium	 mg KOH/g % mg/cm² 	 0.8 + 11 0.0 0.0 0.0 0.0 0.0 - 0.1 0.0	 max. 4.0 - 5 to + 25 max. +/- 0.2 max. +/- 0.2 max. +/- 0.2 max. +/- 0.2 max. +/- 0.2 max. +/- 0.4 max.+/- 0.4	ASTM D 4636

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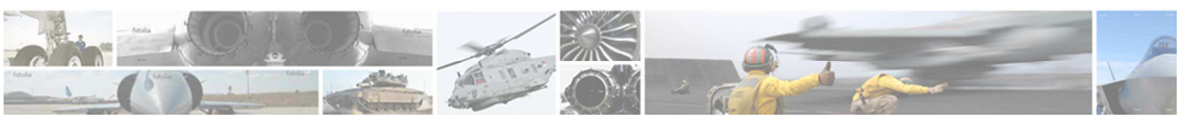
The values above are typical values. They do not constitute any contractual commitment.
Sales specifications are available on request. The present technical data sheet replaces all the previous editions.



NYCO - 66 avenue des Champs Elysées BP 414 - 75366 PARIS CEDEX 8 France | Tél. : +33 145 615 000 | Fax : +33 145 615 013 | E.mail : info@nyco.fr | **www.nyco.fr**