NYCO
AERONAUTICS & DEFENCE

NYCOSOL 13

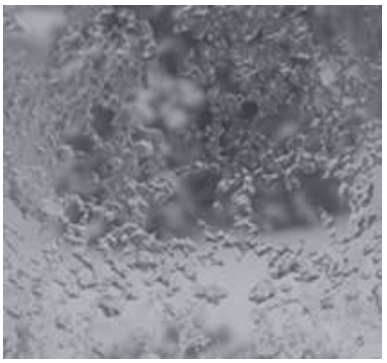
TECHNICAL DATA SHEET

FUEL ICING INHIBITOR, HIGH FLASH POINT

NATO CODE S-1745 - DCSEA 745/B - MIL-DTL-85470B - DEF-STAN 68-252 Iss.3 Amd.1 - AL-41

DESCRIPTION

Nycosol 13 is made of diethylene glycol methyl ether (DIEGME), also called methyldiglycol, and contains the antioxidant mandatory for MIL-DTL-85470



APPLICATIONS

Nycosol 13 is intended to be added to jet fuel to prevent formation of ice crystals that may interfere with the operation of the aircraft fuel system at low temperature (filters, pumps & valves).

It has a high flash point and has replaced ethylene glycol methyl ether (EGME) as fuel icing inhibitor.

It meets the requirements of MIL-DTL-85740B and DEF STAN 68-252, and is DCSEA 745/B approved. The treatment rate is from 0.07 to 0.15% in fuel.

Nycosol 13 can be used in replacement of Gidkost I and Gidkost I-M as anti-water-cristallisation agent in hydrocarbon fuels such as TS-1 (RT) of Russia and Jet A-1 (USA).

CHARACTERISTIC	UNIT	TYPICAL RESULT	MIL-DTL-85470B DEF STAN 68-252 DCSEA 745/B LIMIT	TEST METHOD
Appearance	-	Clear, yellow liquid	Clear, bright, visually free from solid matter	Visual examination
Specific gravity 20/20°C **Density at 15°C**	- kg/dm³	1.023 1.024	1.021 to 1.025 1.024 to 1.028	ASTM D4052
DIEGME content	% mass	>99	-	GC
Colour APHA	-	5	max 10	ASTM D1209
Water content	% mass	< 0.1	max 0.1	ASTM D1364
Acid number	mg KOH/g	< 0.09	max 0.09	ASTM D1613
pH of 25% solution	-	6	5 to 7	NF T 78-103
Ethylene Glycol content	% mass	< 0.5	max 0.5	MIL-DTL-85470
Diethylene Glycol content	% mass	< 0.5	max 0.5	DEF STAN 68-252
Flash Point	°C	91	min 85	ASTM D93
Distillation: **Initial point** **Dry point**	°C	 min 191 max 198	 min 191 max 198	ASTM D1078

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-Élysées BP 414 - 75366 Paris CEDEX 08 - France
Tel : +33 1 45 61 50 00 - Fax : +33 1 45 61 50 13 - info@nyco.fr - www.nyco.fr