



## HIGH PERFORMANCE GENERAL ARTILLERY

G-403 – MIL-PRF-10924 G

### Description

Nycoco Grease GN 145 is a NLGI 2 grease, based on a blend of poly-alpha-olefin and mineral oil thickened with a lithium complex soap. It is fortified with anti-corrosion, antioxidant and anti-wear additives.

### Application

Nycoco Grease GN 145 is a high performance grease designed to lubricate bearings, pins and sliding parts in military automotive equipment (trucks, tanks, artillery guns, etc...). It is often referred as General Artillery Grease (GAA). It exhibits strong anti-corrosion and anti-wear properties to protect the lubricated parts for extended period of time without re-greasing. Nycoco Grease GN145 resists very well to water wash-out – the primary cause of bearing failures of wheel bearings.

The high-melting lithium complex thickener also enables Nycoco Grease GN 145 to withstand high temperature without melting or softening.

Nycoco Grease GN 145 meets the stringent requirements of the specification MIL-PRF-10924 G and offer a much higher performance level compared with standard GAA greases based on mineral oil and lithium soap (MIL-PRF-10924 D).



Characteristic	Unit	Result	Limit*	Test method
- Appearance	--	homogeneous, smooth, beige	-	visual
- Dropping point	°C	245	min. 220	ASTM D2265
- Penetration Worked 60 strokes P105 strokes – P60 strokes	1/10 mm	280 +36	265 to 295 -25 to +60	ISO 2137 FTM-S-791-313
- Water stability P105 (with 10 % water) – P60	1/10 mm	+20	-25 to +60	ISO 2137
- Oil separation	% weight	4.7	max. 5	ASTM D 1742
- Copper corrosion 24 h at 100°C	--	1a	max. 1b	ASTM D4048
- Hoffman Oxidation Test 100 h at 100°C 400 h at 100°C	kPa	15.0 60	max. 34.5 max. 138	ASTM D 942
- Evaporation 22 h at 100°C	% weight	0.4	max. 3.0	ASTM D 2595
- Load carrying capacity	daN	40	min. 30	ASTM D 2596
- Wear preventive characteristics	mm	0.49	max. 0.60	ASTM D 2266
- Low temperature torque at –54°C Starting Running at 5 min	Nm	3 2	max. 7 max. 5	ASTM D 4693
- Roll stability, penetration	1/10 mm	+30	-25 to +60	ASTM D 1831
- Salt water corrosion resistance 24 h at 52°C ; NaCl 1 %	--	pass	pass	ASTM D 5969
- Bearing Life performance at 160°C	h	190	min. 100	ASTM D 3527
- Elastomer compatibility NBR-L CR	% v	+14 +21	-5 to +30 0 to +30	ASTM D 4289

\* MIL-PRF-10924 G

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.