



**HIGH PERFORMANCE GENERAL ARTILLERY**

**NATO CODE G-403 – MIL-PRF-10924 F – DEF STAN 91-27 Issue 3 – XG 279**

**DESCRIPTION**

NYCO 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**

NYCO 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. Nyco 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 NYCO GREASE GN 145 to withstand high temperature without melting or softening.

NYCO 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	Typical Result	MIL-PRF-10924F Limit	Test method
- Appearance	--	homogeneous, smooth, beige grease	Homogeneous smooth grease-	visual
- Dropping point	°C	274	min. 220	ASTM D2265
- Worked penetrability				
After 60 strokes			265 to 295	
After 100000 strokes		281	-	
P100000-P60 change	1/10 mm	323	-25 to +60	ASTM D 217
After 100000 strokes with 10% water		333	-	
P100000+water – P60			25 to +60	
- Oil separation, 30h at 100°C	% w	4.0	max. 5	ASTM D 1742
- Copper corrosion, 24 h at 100°C	--	1a	max. 1b	ASTM D4048
- Oxidation stability at 100°C, after 100h / 500h	kPa	9 / 35	max. 83 / max 172	ASTM D 942
- Evaporation loss, 22 h at 100°C	% w	0.4	max. 3.0	ASTM D 972
- Steel on steel wear, 1h at 392 N	mm	0.5	max. 0.6	ASTM D 2266
- Load carrying capacity (LWI)	daN	39.5	min. 30.0	ASTM D 2596
- Torque at -54°C (starting / 5 min)	Nm	2.66 / 0.04	max 7.00 / max 5.00	ASTM D 4693
- Roll stability, penetrability change	1/10 mm	+37	-25 to +60	ASTM D 1831
- Bearing corrosion test, with NaCl 1 %	--	pass	pass	ASTM D 1743
- Bearing Life performance at 160°C	h	190	min. 100	ASTM D 3527
- Elastomer compatibility				
NBR-L	% vol	+7.6	report	ASTM D 4289
CR		+21		

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.

