



HIGH PERFORMANCE GENERAL ARTILLERY GREASE

NATO CODE G-403 - MIL-PRF-10924 F

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.

APPLICATIONS

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-10924F and offer a much higher performance level compared with standard GAA greases based on mineral oil and lithium soap (MIL-PRF-10924D).



CHARACTERISTIC	UNIT	TYPICAL RESULT	MIL-PRF-10924F	TEST METHOD
Appearance	--	homogeneous, smooth, beige grease	Homogeneous smooth grease-	visual
Dropping point	°C	274	min. 220	ASTM D2265
Worked penetrability After 60 strokes After 100000 strokes P100000-P60 change After 100000 strokes with 10% water P100000+water – P60	1/10 mm	281 323 42 333 52	265 to 295 - -25 to +60 - 25 to +60	ASTM D 217
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 (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 CR	% vol	+7.6 +21	report	ASTM D 4289

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