



HI-LO SYNTHETIC MULTI-PURPOSE GREASE

DESCRIPTION

49 NORTH® HI-LO SYNTHETIC MULTI-PURPOSE GREASE is a premium quality, multi-purpose, high temperature, lithium complex EP (extreme pressure) grease with excellent low temperature properties, EP/anti-wear, rust, and oxidation inhibitor additives that provide superior protection for a wide range of applications and service conditions.

QUALITIES

49 NORTH® HI-LO SYNTHETIC MULTI-PURPOSE GREASE is engineered to provide lubrication protection under extreme high/low temperature ranges and severe operating conditions. 49 NORTH® HI-LO SYNTHETIC MULTI-PURPOSE GREASE is a unique formulation of base oils, synthetic fluids and additives that provide excellent oil bleed characteristics, resistance to oxidation at elevated temperatures and exceptionally low start-up resistance (torque) under extreme low temperature conditions. The additive package includes superior anti-wear and corrosion resistance components as well as universal seal compatibility.

APPLICATIONS

49 NORTH® HI-LO SYNTHETIC MULTI-PURPOSE GREASE is an excellent high/low temperature multi-purpose grease designed to lubricate in severe service and operating conditions over an extreme temperature range in a wide variety of automotive, agricultural, trucking, industrial, mining, and construction applications. 49 NORTH® HI-LO SYNTHETIC MULTI-PURPOSE GREASE conforms to the highest performance categories of ASTM D 4950 Automotive Grease Classification System, GC for wheel bearing service and LB for chassis service, and is NLGI GC-LB for dual-service. 49 NORTH® HI-LO SYNTHETIC MULTI-PURPOSE GREASE is recommended for high speed bearing applications and the lubrication and surface corrosion protection of vehicles and equipment operating in the temperature range of -54° C to +180° C. (-65°F to +356° F).

TYPICAL PROPERTIES

NLGI Grade	2
Product Code	5404
Automotive Service Classification (ASTM D 4950)	GC-LB
Thickener Type	Lithium Complex
Texture	Smooth, Buttery
Colour, Observed	Amber
Un-worked Penetration (ASTM D 217)	+/-25 WK-60
Worked 60 Penetration (ASTM D 217)	265-295
Worked 100K Penetration (ASTM D 217)	+/-25WK-60
Dropping Point (ASTM D-2265) °F (°C)	500 (260)
Wheel Bearing Leakage, ASTM D 4290, g loss	2.0
Water Washout, ASTM D 1264, % loss at 100° F	1.4
Rust Prevention (ASTM D-1743), Rating	Pass
Copper Bearing, ASTM D 1261, Rating	1A
Copper Corrosion (ASTM D-4048), Rating	Pass
Oxidation Stability, ASTM D 942, psi drop	2.6 at 100 hrs.
Oil Separation, ASTM D 1742, % loss	1.0
Oil Separation, FTMS 321.2, % loss	2.9

TYPICAL PROPERTIES

NLGI Grade	2
Product Code	5404
Low Temperature Torque at -40° C, N-m	3.3
High Temperature Life, ASTM D 3527, hrs.	142
Evaporation Loss, ASTM D 972, % loss	1.9
Timken OK Load, lbs (ASTM D-2509)	70
Four-Ball Wear (ASTM D 2266) mm	0.45
Four-Ball EP Weld Point (ASTM D 2596) kgf	315
Base Oil Viscosity (ASTM D 445)	
cSt at 40° C	78.5
cSt at 100° C	13.4
cSt at 100° F (SUS)	85.8 (398)
cSt at 210° F (SUS)	13.8 (73)
Viscosity Index	176

Lubricants For All Reasons