

"PERFORMANCE UNDER PRESSURE"



HPCC #1 GREASE
100% SYNTHETIC HIGH PERFORMANCE
CALCIUM COMPLEX

Product Description

NEO HPCC#1 Grease is a specialty grease for linear and oscillating mechanisms and couplings, such as constant velocity couplings (CV joints) and sealed bearings. It will take heavy shock loads, frequent axial movements, large speed variations, and frequent reversing. It is made with a higher molecular weight synthetic base stock and will withstand extreme temperatures. It has a very strong resistance to water washout in rain or even salt water.

NEO HPCC#1 Grease is designed for low oil separation under centrifuging. It is classified as an NLGI#1 ½ Grade grease but will react to the amount of shear loading and will stiffen to a hard #2 grade grease. The grease is designed to "skin over" to create a shell that resists dirt & moisture, but this shell does not in any way detract from the lubricating qualities. For this reason, this is an excellent product for "sealed for life" bearings or large open gears. It is equally at home in dusty climates and very wet locations.

Special Applications:

Antiseize to 1200°F. Assembly and Spline Lubricant, Cam Lubricant, Jack Screws and Fasteners, Logging Hammers, Knuckle Joints, Outboard Bearings, and Launch Grease; Pump and Valve lubrication in moderately hot, corrosive, wet environments.

Specifications:*

NEO High Performance Calcium Complex (HPCC) #1 Grease is classified as N.L.G.I Grade 1 ½ and will Grade 2. Color is Moly Gray.

*Subject to normal manufacturing tolerances.

SPECIFICATION

Base Oil
Viscosity Increase

VALUE

ISO Viscosity 500
@ 100°F 10.5%
@ 210°F 6.7%
@ 77°F 330
@ 77°F 300
260

TEST METHOD

72 hours
72 hours
60 strokes
60,000 strokes
Shell: 800 Kg
800Kg. 10 seconds
Shell; 500 Kg @ 900 rpm, 5 minutes
300 hours
72 hours
Cone Method; 30 hours @ 350°F
FTM Standard 791-6, 321.2

Unworked penetration
Worked Penetration

None
160
1.72 mm
1.45 mm

4-Ball EP Weld Load
Load Wear Index
4-Ball Wear Scar
Endurance Wear Scar
Evaporation Loss

@ 300°F 1.4%
@ 400°F 2.1%

Oil Separation

5.0%

Oxidation Stability
Dropping Point
Pour Point
Flash Point
Fire Point
Density

<4.0%
600. °F
-18. °F
600. °F
650. °F
@ 60°F 9.11 pounds/gallon

Applications:

HPCC#1/s designed use is for severe sliding, skidding and rolling contact such as extremely heavily loaded ways and guides: slow, large diameter ball & roller bearings, journals, linear & oscillating mechanisms; and Constant Velocity, Articulated, Knuckle & Universal Joints subject to the harshest shock loading, angularity, radial forces and high torque transmission to driving components. Selected applications are found on demanding Military Mobile Equipment, All-Terrain Vehicles, Armored Troop Carriers & Commercial Off-Road Construction equipment. HPCC #1 can be used on sensitive metallurgy including copper, silver, tin, aluminum and their alloys. Exceptionally resistant to water wash conditions including emulsions. HPCC #1 is specially formulated to slightly "skin dry" when in contact with air to provide self-sealing protection when seals are deteriorated. Special compounding & lubricating solids provide superior antiseize characteristics & exceptional acid & corrosion resistance.