NEO Synthetics

{PERFORMANCE UNDER PRESSURE}

HPCC #1 GREASE

Product Data Sheet – NEO Synthetics High Performance Motor Oils

HPCC #1 GREASE100% SYNTHETIC HIGH PERFORMANCE CALCIUM COMPLEX

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.

Specifications	VALUE	TEST METHOD
Base Oil	Viscosity 500	
Viscosity Increase	@ 100°F 10.5%	72 hours
Worked Penetration	D-217 6.7%	72 hours
Unworked penetration	@210°F	60 strokes
@ 77°F	6.7	60,000 strokes
330	D-445	Shell: 800 Kg
Worked Penetration	@ 77°F	300
Load Wear Index	160	260
4-Ball Wear Scar	1.72 mm	
Endurance Wear Scar Evaporation Loss	1.45 mm	72 hours
	@300°F 1.4%	1.4%
Oil Separation	@400°F 2.1%	2.1%
	5.0%	
Oxidation Stability	<4.0%	D942 Pressure Drop, 400 hours
Dropping Point	600. °F	
Pour Point	-18. °F	
Flash Point	600. °F	
Fire Point	650. °F	
Density	@ 60° F 9.11 pounds/ gallon	
4-Ball Wear Scar, mm (40Kg, 75°C, 1hr.@ 1200rpm)	D2266	0.57
Dielectric Strength, KV	D-877	30

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NEO HPCC#1 Grease is designed for low oil separation under centrifuging. It is classified as an NLGI#1 Yz 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" 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.

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, Alt Terrain Vehicles, Armoured 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 anti-seize characteristics & exceptional acid & corrosion resistance.

Special Applications:
Anti-seize 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.