

# NEO Synthetics

## {PERFORMANCE UNDER PRESSURE}

HP800 WIELLAGERVET



### Product Data Sheet – NEO Synthetics High Performance Motor Oils

NEO HP800 Heavy Duty EP grease for plain and rolling element bearings, and sliding mechanisms operating generally difficult conditions. Exceptionally resistant to water wash out including emulsions, NEO HP800 was designed specifically for precision rolling element bearings in high performance racing cars. This grease is slightly thinner in consistency and has a higher viscosity synthetic fluid incorporated in its design as compared to greases normally used for passenger vehicles and is designed to lubricate to 425°C (800 °F).

NEO HP800 is designed for the peripheral speeds encountered by wheel bearings in racing which are 3 to 6 times that of passenger cars and prevent “channeling of the grease” under these conditions which requires a lighter consistency product. Due to the excessive heat generated by over-sized disk brakes, the fluid constituent of the grease is synthetic and of a higher viscosity so as to provide the proper oil viscosity at operating temperature, thereby preventing thin film rupture, and excessive wear. Special

additive technology & synthetic fluids give high film strength under EP conditions with exceptional oxidative & thermal stability. Can be used on sensitive metallurgy including copper, silver, tin, aluminum, & their alloys. Highly specialized mixed base complex soap structure provides high dropping point, mechanical & thermal stability. Low bleed characteristics insure protection at high temperature & high radial forces.

#### Applications:

Ideal for use in high temperature lubricated packing boxes, hot & cold rolling mills, slabbing mills, ladle pins, continuous casting wheels, converter bearings, overhead conveyor bearings; also bushings, bearings, & cutter head mechanisms on continuous mining machines. Unexcelled for high speed - highly loaded couplings & splines found in steel mill operations. NLGI grade 1 Y2 designed for grease lubricated roll neck bearings & automatic grease dispensing systems.

Specifications – Classified as N.L.G.I Grade 1 Y2	
Penetration	292
Mechanical Stability 100,000 strokes	308
% Change	4.40%
Dropping Point	>600°F
(Modified drop test in house) 800°F	800°F
(Evaporation Wt. Loss@ 250 °F, 24hr 0	.045%
Copper Corrosion @212°F	3hrs – 1lb
4-Ball EP Weld Load	350Kg
Oil Viscosity @ 100°F	2500 SUS
Oil Viscosity @210 °F	210 SUS