GEAR SHIELD® NCW

Open Gear Lubricant

Product Data Sheet

Product Description

Gear Shield® NCW is the world leader in lubrication for open gear drives on stationary rotating machinery. **Gear Shield® NCW** is a high viscosity fluid that provides superior separation of gear teeth in the heaviest loaded zone of gear tooth mesh. **Gear Shield® NCW** is formulated with extreme pressure additives and designed for lower temperature applications.

Gear Shield® NCW is formulated to be readily pumpable for consistent and even lubrication distribution. **Gear Shield® NCW** is easily drainable. The high viscosity base fluid allows for economically controlled application of the lubricant using an automatic lubrication spray system.

Gear Shield® NCW is the open gear lubricant of choice for mills and kilns in Mineral processing, Power generation, Steel, and Cement industries.

Features & Benefits

- High viscosity fluid designed to lubricate heavily loaded open gears
- Highest EHD values of any open gear lubricant
- Anti-wear and extreme pressure additives provide unparalleled protection in the most heavily loaded zones of gear tooth mesh
- Optimum consumption as per AGMA & OEM guidelines
- Industry-leading FZG wear test result
- No build-up in gear tooth roots and drains freely from gear guards
- Pumps freely down to 0ºF/-18ºC.
- Environmentally friendly. Does not contain chlorinated solvents or lead and is free of all carcinogens. Passes TCLP Protocol A

Product Application

Gear Shield® NCW can be used in Ball Mills, Sag Mills, Rod Mills, Balling Discs, Kilns, Dryers, Quenchers, and Mixers.

Gear Shield® NCW may be applied by spraying, brushing, or dripping.

Gear Shield® NCW is designed to be sprayed through all automatic lubrication equipment.

Gear Shield® NCW is available in pails, kegs, drums, bin tanks, and tank trucks.

Notes

Gear Shield® NCW exceeds OEM and AGMA base oil viscosity requirements for open gear lubricants applied by intermittent spray application.

If you require further information, contact Petron at: info@petroncorp.com

GEAR SHIELD® NCW

Open Gear Lubricant

Property	Test Method	Typical Data
Color	Visual	Black
Appearance	Visual	Viscous
Base Oil Viscosity, cSt @ 40ºC	ASTM D445	>55,000
Finished Viscosity, cSt @ 40ºC	ASTM D445	1,600
Specific Gravity	ASTM D1298	0.96
Flash Point	ASTM D92 (C.O.C.)	>200ºF (>93ºC)
4 Ball, Weld, kg	ASTM D2596	400
Load Wear Index	ASTM D2596	77
4 Ball Wear (scar diam., mm)	ASTM D2266	0.49
FZG Load Stages Passed	DIN 51354	>12
FZG Specific Mass Loss (mg/kW.h)	DIN 51354	0.05
FZG 30 hr Mass Loss (mg) @ L.S. 10	DIN 51354	20
Mobility@ 32°F, g/s	US Steel Mobility Test	0.02
Ventmeter, 600 psi	Lincoln VE-1	0ºF @ 40 seconds
Rust Prevention	ASTM D665	Pass

Emissivity setting for handheld temperature devices to be set at .90

Testing listed is typical, no warranty is expressed or implied regarding results obtained from use. Information contained on this Product Data Sheet is subject to change without notification. Seller shall not be liable for any loss or damage.

Petron Corporation
16800 W Glendale Drive, New Berlin, Wisconsin 53151
Tel: (262) 797-4680 · Fax: (262) 796-1080
Web: https://www.petroncorp.com