

Product Data Sheet

Product Description

Gear Shield[®] NC is the world leader in lubrication for open gear drives on stationary rotating machinery. **Gear Shield[®] NC** is a high viscosity fluid that provides superior separation of gear teeth in the heaviest loaded zone of gear tooth mesh. **Gear Shield[®] NC** is formulated with extreme pressure additives to further enhance this protection.

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

Gear Shield[®] NC 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 32°F (0°C). For colder applications use **Gear Shield[®] NCW**
- Environmentally friendly. Does not contain chlorinated solvents or lead and is free of all carcinogens. Passes TCLP Protocol A

Product Application

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

Gear Shield[®] NC may be applied by spraying, brushing, or dripping.

Gear Shield[®] NC is designed to be sprayed through all automatic lubrication equipment.

Gear Shield[®] NC is available in spray cans, pails, kegs, drums, bin tanks, and tank trucks.

Notes

Gear Shield[®] NC 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® NC

Open Gear Lubricant

| Property | Test Method | Typical Data |
|------------------------------------|------------------------|---------------------|
| Color | Visual | Black |
| Appearance | Visual | Viscous |
| Base Oil Viscosity, cSt @ 40°C | ASTM D445 | >55,000 |
| Undiluted Viscosity, cSt @ 100°C | ASTM D445 | >1,600 |
| Finished Viscosity, cSt @ 40°C | ASTM D445 | 6,000 |
| Specific Gravity | ASTM D1298 | 0.96 |
| Flash Point | ASTM D92 (C.O.C.) | >250°F (>121°C) |
| 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 |
| Film Life Test (minutes) @ L.S. 7 | DIN 51354 | 33 |
| Mobility @ 32°F, g/s | US Steel Mobility Test | 0.03 |
| Ventmeter, 600 psi | Lincoln VE-1 | 32°F @ < 30 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.