



Product Data Sheet

Product Description

Petron 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 a high-viscosity base fluid combined with E.P. and oxidation-resistant additives further enhancing this protection.

The product is formulated to be readily pumpable for good lubrication distribution and easily drainable. The High Viscosity base fluid allows for economically controlled application of lubricant using a Automatic Lubrication Spray system.

Petron 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.
- Anti-wear and extreme pressure additives provide unparalleled protection in the most heavily loaded zones of gear tooth mesh.
- Industry-leading FZG wear test result.
- No build-up in gear tooth roots.
- Drains freely from gear guards.
- Optimum Consumption as per AGMA & OEM guidelines.
- Pumps freely down to 32°F (0°C). For applications below 32°F (0°C) use Gear Shield NCW.
- Environmentally friendly. Does not contain chlorinated solvents or lead and is free of all carcinogens.
- Environmentally Safe/Passes TCLP Protocol A.

Product Application

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

Petron Gear Shield® NC may be applied by spraying, brushing or dripping. Petron Gear Shield® NC is designed to be sprayed through all automatic lubrication equipment.

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

Notes

Petron 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 |
| Specific Gravity | ASTM D-1298 | 0.96 |
| Flash Point | ASTM D-92 (C.O.C.) | >250°F (>121°C) |
| 4 Ball, Weld, Kg | ASTM D-2596 | 400 |
| Load Wear Index | ASTM D-2596 | 77 |
| 4 Ball Wear (scar diam., mm) | ASTM D-2266 | 0.49 |
| FZG Load Stages Passed | DIN 51354 | >12 |
| FZG Specific Mass Loss (mg/kW.h) | DIN 51354 | 0.0532 |
| 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 | ASTM D-665 | PASS |
| Viscosity, cSt @ 100°C (undiluted) | ASTM D-445 | 1,600 |
| Viscosity, cSt @ 40°C (diluted) | ASTM D-445 | 6,000 |

Emissivity setting for hand held 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. Before using product, always be sure to read and follow precautions and directions for use appearing on the product container. Seller shall not be liable for any loss or damage.