



## GEAR SHIELD® NCW Open Gear Lubricant

# Product Data Sheet

## Product Description

Petron Gear Shield® is the world leader in lubrication for open gear drives on stationary rotating machinery. Petron Gear Shield® is the newest generation in a long proven family of open gear lubricants. Gear Shield® is a high-viscosity fluid that provides superior separation of gear teeth in the heaviest loaded zone of gear tooth mesh. Gear Shield® is a high-viscosity base fluid combined with E.P. and oxidation-resistant additives further enhancing this protection. Petron Gear Shield® is the open gear lubricant of choice for mills and kilns in mineral processing such as gold, copper, iron, taconite, and phosphate. It is also the product of choice in the power generation 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 Specific Mass Loss wear test result (0.0532 mg/kWh).
- No build-up in gear tooth roots.
- Drains freely from gear guards.
- Pumps freely down to 0° F/-18° C.
- 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® NCW may be applied by spraying, brushing or dripping. Petron Gear Shield® NCW is designed to be sprayed through all automatic lubrication equipment.

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

## Notes

Petron 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](mailto:info@petroncorp.com)

## GEAR SHIELD® NCW

Property	Test Method	Typical Data
Color	Visual	Black
Appearance	Visual	Viscous
Specific Gravity	ASTM D-1298	0.96
Flash Point (diluted)	ASTM D-92 (C.O.C.)	>200° F (>93°C)
Flash Point (undiluted)	ASTM D-92 (C.O.C.)	>500° F (>260°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
Mobility @ 0°F, g/s	US Steel Mobility Test	0.02
Ventmeter, 600 psi	Lincoln VE-1	0°F @ 40 seconds
Rust	ASTM D-665	PASS
Viscosity, cSt @ 100° C (undiluted)	ASTM D-445	1,600
Viscosity, cSt @ 40° C (diluted)	ASTM D-445	900 to 1,600

**Emissivity setting for hand held temperature devices to be set at .90**

**IMPORTANT: Before using Gear Shield® NCW, always be sure to read and follow precautions and directions for use appearing on the product container label.**