



## GEAR SHIELD® NC 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 blend of high-viscosity base fluids and highly refined resins 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 wear test result (0.0532 mg/kWh).
- No build-up in gear tooth roots.
- Drains freely from gear guards.
- 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 is recommended for use on gear operating temperatures up to the Flashpoint of the product. 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](mailto:info@petroncorp.com)

## GEAR SHIELD® NC

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.)	
w/Solvent		>250°F (>121°C)
w/o Solvent		>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
<b>FZG</b>		
Load Stages Passed	DIN 51354 (A/2,76/50)	>12
Specific Mass Loss (mg/kW.h)	DIN 51354 (A/2,76/50)	0.0532
30 hr Mass Loss (mg) @ L.S. 10	DIN 51354 (A/2,76/50)	20
Film Life Test (minutes) @ L.S. 7	DIN 51354 (A/2,76/50)	33
<b>Mobility</b>		
@ 32°F (0° C), g/s	US Steel Mobility Test	0.03
@ 32° F (0° C), p.s.i.	Lincoln Vent Meter	<600
<b>RUST</b>	ASTM D-665	PASS
<b>Viscosity Range</b>		
cSt @ 100°C (Undiluted)	ASTM D-445	>1,000
cSt @ 40°C (Diluted)		4,000 to 6,000

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

Petron Corporation  
 16800 W Glendale Drive, New Berlin, Wisconsin 53151  
 Tel: (800) 757-5796 · Fax: (262) 796-1080  
 Web: <http://www.PetronCorp.com> ·

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