



A HOLLYFRONTIER BUSINESS

# TECH DATA

## VULTREX™

### GEAR SHIELD® NC

## INTRODUCTION

Petro-Canada Lubricants' VULTREX Gear Shield NC is an EP and anti-oxidant fortified semi-fluid lubricant designed for mill gears and other types of open gears operated with centralized lubrication systems. In many applications, VULTREX Gear Shield NC open gear lubricant has delivered trouble-free performance for over 30 years.

VULTREX Gear Shield NC is a cost-effective semi-fluid lubricant formulated with an asphaltic base oil.

VULTREX Gear Shield NC can be used in mineral processing, power generation, steel and cement industries.

## FEATURES AND BENEFITS

### Excellent EP (Extreme Pressure) performance

- Offers excellent lubrication during normal mill operations
- Protects gears from shock loads and damaging torque stress during mill start-ups
- Excellent test result for FZG Specific Mass Loss (mg/kW.h)

### Environmentally friendly

- Free of chlorinated solvents, lead compounds and carcinogens
- Passes TCLP Protocol A

### Enhanced/high film thickness provides better protection of gear surfaces in tough environments

- Higher viscosity ensures better coverage of gear surfaces and lubrication
- Reduced product loss
- Drains freely from gear shrouds which reduces labor in cleaning and maintenance costs
- Excellent pumpability, eliminating spray nozzle plugging compared to grease products
- No build up in gear tooth roots

## APPLICATIONS

Petro-Canada Lubricants' VULTREX Gear Shield NC is designed for open gears using manual or centralized lubricant application systems. It is recommended for use in all types of mill gears including ball, rod and sag mills as well as kilns and dryers. VULTREX Gear Shield NC meets the specifications of major mill and gear manufacturers including:

- David Brown DBGI (South Africa)
- Foster Wheeler
- Falk
- Metso
- FLS
- Outotec

## TYPICAL PERFORMANCE DATA

Property	Test Method	VULTRIX GEAR SHIELD NC
Appearance	Visual	Viscous / Semi-fluid
Colour	Visual	Black
Density, 15°C, kg/L	D1298	0.9580
Flash Point, COC, °C/°F	D92	>121/>250
Kinematic Viscosity, cSt @ 40°C	D445	4765
Four Ball Weld Load, kg	D2596	400
Four Ball Wear, Scar Diameter, mm	D2266	0.49
Four Ball Load Wear Index	D2596	77
Mobility, 0°C, g/s	PCM 533	0.030
Lincoln Ventmeter, 0°C, psig	Lincoln VE-1	600
FZG Passing Load Stage A/8.3/90	DIN 51354	>12
FZG Specific Mass Loss (mg/kW.h)	DIN 51354	0.0532
Rust Test	D665	PASS

\*The values quoted above are typical of normal production. They do not constitute a specification.

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 Contact us: [lubecsr@petrocanadalsp.com](mailto:lubecsr@petrocanadalsp.com)

Committed to the disciplined operation of our business.



**Petro-Canada Lubricants Inc.**  
 2310 Lakeshore Road W. Mississauga, Ontario, Canada L5J 1K2  
[lubricants.petro-canada.com](http://lubricants.petro-canada.com)

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