



VULTREX™ GEAR SHIELD AND GEAR DRESSING OPEN GEAR LUBRICANTS

Introduction

Vultrex Gear Shield P and NC

Petro-Canada VULTREX Gear Shield P and NC are semi-fluid lubricants designed for mill gears and other types of open gears operated with centralized lubrication systems. In many applications, VULTREX Gear Shield Lubricants have delivered trouble-free performance for over 25 years.

VULTREX Gear Shield P is formulated using semi-synthetic, paraffinic high VI base oils. It exhibits excellent oxidation resistance and has good low temperature fluidity. VULTREX Gear Shield NC is a cost-effective semi-fluid lubricant formulated with an asphaltic base oil.

Vultrex Gear Dressing EP

VULTREX Gear Dressing EP is a high quality water and heat resistant grease based on a premium synthetic lubricant. This grease has excellent adhesive film properties and provides excellent protection to industrial open gear and chain drives by reducing metal to metal contact. The extreme pressure additives in Gear Dressing EP improve the load carrying ability of this grease and reduce wear under very high pressure.

Features and Benefits

Vultrex Gear Shield P and NC

- **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
 - Best FZG wear test result (0.532 mg/kwh) for this product class

- **Non-hazardous products - free of chlorinated solvents, lead compounds and carcinogens**
 - No special handling required
 - Environmentally friendly
- **Gives a softer and more even lubricant film than competitive greases made with volatile solvents**
 - Higher viscosity ensures better coverage of gear surfaces
 - Less product loss
 - Drains freely from gear shrouds which reduces maintenance costs
 - Excellent pumpability, no spray nozzle plugging
 - No build up in gear tooth roots

Vultrex Gear Dressing EP

- High resistance to heat and water
- Forms a tenacious film to protect gears and chains against abnormally heavy loads and pressures

Applications

Vultrex Gear Shield P and NC

Petro-Canada VULTREX Gear Shield P and NC are designed for open gears using manual or centralized lubricant application systems. They are recommended for use in all types of mill gears including ball, rod and sag mills as well as kilns and dryers. VULTREX Gear Shield P and NC are approved by, or meet the specifications of all of the major mill and gear manufacturers including:

UBE	Koppers
FALK	Dominion
Boliden Allis	Fuller
Metso (Svedala)	

*Gear Shield is a registered trademark of Petron Corp; Petro-Canada is a registered user.

VULTREX Gear Shield P, being a semi-synthetic lubricant, is well suited for use in situations where extreme temperatures may be encountered or where conventional lubricants break down due to insufficient oxidation resistance.

Vultrex Gear Dressing EP

VULTREX Gear Dressing EP is specially formulated for the lubrication of industrial open gears and chains when applied by a caulking gun.

PROPERTY	TEST METHOD	VULTREX		
		GEAR SHIELD P	GEAR SHIELD NC	GEAR DRESSING EP
Penetration, 25 °C, 60 strokes	D217	447	395	305
Dropping Point, °C / °F	D566	24 / 75	26 / 79	300
Colour	PCM 264	Black	Black	Black
Texture	PCM 264	Stringy	Stringy	Stringy
Diluent Content, % wt	-	12	10	-
Copper Corrosion, 3h @ 100 °C	D130	1b	2b	1b
Four Ball Weld Point, 10s, kg	D2596	400	400	315
Load wear Index	D2596	70	70	-
Four-ball Wear, scar diam., mm	D2266	0.4	0.4	0.53
Mobility, g/s @ 0 °C / 32 °F g/s @ -18 °C / -4 °F	PCM 533	0.108 0.01	0.036 -	- -
Timken EP Test, pass, kg / lb	D2509	20 / 45	18 / 40	20 / 45
FZG - Test, A/8.3/90, Scuffing load stages passed	DIN 51354	12	12	-
Lincoln Ventmeter Test, -1 °C, kPa (psig)	Lincoln VE-1	2040 (300)	1700 (250)	-
Base Oil Viscosity cSt @ 40 °C SUS @ 100 °F	D445 D445	6342 34000	4931 26000	26554 148600
Flash Point, °C / °F	D92	>121 / >250	>121 / >250	>224 / >435

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

To order product or to learn more about how Petro-Canada Lubricants can help your business visit: lubricants.petro-canada.com or contact us at: lubecsr@petrocanadalsp.com

