

PRODUCT DATA SHEET



BIODEGRADABLE WIRE ROPE LUBRICANT

Biodegradable Wire Rope Lubricant, commonly known as Bio-Bel Cable and Rope Lubricant, is a solvent-free, biodegradable, penetrating, wire rope lubricant designed specifically for applications where lubricant contamination is an environmental concern. It penetrates to the wire rope's core, preventing internal rust and reducing rubbing wear and friction between the individual strands, common causes of most rope failures, and is particularly suited to marine areas or high water level environments. **Biodegradable Wire Rope Lubricant** is formulated using readily renewable bio-base fluids blended with non-toxic Extreme Pressure and anti-wear additives. The high oleic vegetable base oil is more oxidatively stable than conventional vegetable oil, providing for extended lubricant life while maintaining rapid biodegradability.

Applications

- ♦ Underground mining drift or hoist ropes
- Drag, hoist and crowd ropes found on draglines and shovels
- ♦ Marine rope applications, port and shipboard crane cables, haulage tow cables
- General purpose wire rope applications, overhead cranes in the food industry or winch ropes in the forest products industry

Features and Benefits

<i>y</i>	
Penetrating	Provides rapid penetration to the rope core giving excellent lubrication and corrosion protection increasing the useful life of the rope.
Extreme Pressure and anti-wear properties	Maximizes component useful life helping to reduce replacement part costs and lost production time.
Biodegradable	Biodegrades to harmless substances.
Rust protection	Prevents rusting of inner strands. Suitable for use in areas where sea water, effluent or hostile environmental conditions are encountered.
	Extreme Pressure and anti-wear properties Biodegradable

General Description

Biodegradable Wire Rope Lubricant is a solvent-free high performance wire rope lubricant with a high degree of biodegradability. It is based on renewable natural oil combined with non-toxic Extreme Pressure and anti-wear additives. **Biodegradable Wire Rope Lubricant** also contains non-toxic rust and corrosion inhibitors. **Biodegradable Wire Rope Lubricant** features a unique lubricity system that virtually eliminates rubbing wear between the inner rope strands.

Product No. 301221

Page 1 of 2 1/2/2018

With continual research and development, Calumet reserves the right to change the information contained herein. The Company is not responsible for misuse or misapplication of its products.

BIODEGRADABLE WIRE ROPE LUBRICANT TYPICAL PROPERTIES

Product No.	<u>301221</u>
Old Product No.	<u>56850</u>
SAE Grade	30
Viscosity (Base Fluid), ASTM D445 @ 40°C, cSt @ 100°C, cSt	54 11.4
Viscosity (Base Fluid), ASTM D2161 @ 100°F, SUS @ 210°F, SUS	271 65.3
Viscosity Index, ASTM D2270	212
Pour Point, ASTM D97 °C (°F)	-26 (-15)
Falex EP Test, ASTM D2783, Method B Non-seizure load, lbf	2000
4-Ball Wear Test, ASTM D4172 @ 1200 rpm, 40 kg, 1 hr, 75°C Scar Diameter, mm	0.29
Biodegradability, ASTM D5864 (OECD 30) %	1B) 69.5
Flash Point, ASTM D92 °C (°F)	280 (536)
Rust Test, ASTM D665, Procedure A	Pass
Specific Gravity, ASTM D1298, 60/60°F	0.9125
Appearance	Clear / Sharp
Color	Dark Straw
Page 2 of 2 With continual research and development, Calumet reserves the right to change the information contained herein. The Company is not responsible for misuse or misapplication of its products.	