



Guardian

Wire Rope Closing Grease

Biodegradable

Wire Rope Grease is premium quality biodegradable, Biotechbased™ grease formulated from vegetable oils, aluminum-based thickener and anti corrosion additives for maximum wire rope protection. Guardian is fully compliant in formula to meet VGP and Ecolabel legislation. Independently testing for salt spray degradation for 700 hours "PASS" test facility UK.

Biobased

Biobased, biodegradable, non-bioaccumulative, non-aquatic toxic and not toxic to plants. Based on evaluation of the base oils and the finished products, the biobased products are designed to be biodegradable, aquatically non-toxic, not bioaccumulative and with no impact on plants as determined by known test methods. Nevertheless, the use of all the products are subject to the local ordinances and ultimate responsibility for impact remains with the users

Applications

- Recommended for most wire ropes and cables
- Ideal for protection from salt spray
- excellent for extreme pressure applications
- Designed for protection between all metal to metal contact areas
- Prevents rust and corrosion
- Recommended for marine applications or anywhere that wire rope is used
- Recommended for environmentally sensitive areas near waterways

Benefits

- Contains anti-corrosion additives to prevent rust
- Contains Advanced additives to reduce fatigue and extend the life of wire ropes
- Higher flash point than petroleum greases for increased safety
- Biodegradable formula reduces damage to the environment
- Applied under pressure NOT Heat thus increasing the product life cycle
- Meets EPA's Environmental Preferable Purchasing (EPP) criteria
- Meets USDA's proposed Biobased product definition for EO 13101
- Manufactured from renewable crop-based oils - Reduces foreign oil dependence

Properties	Test Method	Typical Values
Thickner		Aluminum complex
Base Fluid	Proprietary Blend	Selected Plant Oils
Colour	Visual	Brown
NLGI Grade	ASTM	3/4
Dropping Point	I.P.132 (ASTM D566)	280°C
Base Oil Viscosity	@40°C, cSt, ASTM D445	460
Penetration Strokes 60@ 250C	ASTM D217	185
Oil Separation	ASTM D1742	>3%
Corrosion Prevention Distilled Water	ASTM-D174	Pass
Salt Spray Test	700 Hours	Pass
Sheen Test	No Visible Sheen	Pass
Temperature Range	Tested	-34 to +125°C
Readily Biodegradable Content %	OECD 301B	>75
Aquatic Toxicity mg/L	OECD 210/202/20	>1,000
Bioaccumulation Content %	OECD 305	Pass

Packaging	Weight Imperial	Weight Metric
Pail	35lb	15.8kg
Keg	120lb	54kg
Drum	400lb	181kg
Bulk		As required

DATA PROVIDED IN THIS BULLETIN IS TO BE CONSIDERED AS REPRESENTATIVE OF CURRENT PRODUCTION GENERALLY AND NOT AS SPECIFICATIONS. WHILE ALL THE DATA PRESENTATED IN THIS BULLETIN IS BELIEVED TO BE RELIABLE AND BECAUSE CONDITIONS OF USE ARE BEYOND OUR CONTROL, LUBITEC MAKES NO REPRESENTATIONS, GUARANTEES OR WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR AS TO THE THE CORRECTNESS OR SUFFICIENCY OF DATA HEREIN PRESENTED. EACH USER SHOULD CONDUCT A SUFFICIENT INVESTIGATION TO ESTABLISH THE FITNESS OF ANY PRODUCT FOR ITS INTENDED PURPOSE. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF THIS COMPANY IS AUTHORISED TO VARY ANY OF THE TERMS OF THIS NOTICE. TO CONTINUE TO PROVIDE SUPERIOR QUALITY, LUBITEC RESERVES THE RIGHT TO CHANGE THE COMPOSITION OF ITS PRODUCTS WITHOUT NOTICE.

