



Bioshovel Gear

Ecological lubricant for open gears of excavators

Description

Bioshovel Gear is a lubricating grease with biodegradable properties, designed for the lubrication of open gears of excavation and loading equipment.

Provide a high shear film for the lubrication of gears, zippers and steel cables that are operating under severe conditions of extreme load, vibration, wet and dry environment as well as well as solar radiation.

Benefits

- Biodegradable.
- Excellent anti-wear and extreme pressure properties.
- Good corrosion protection.
- Pumpable at low temperatures.
- No need to change grade from summer to winter.
- Great adherence towards mechanical elements.
- Contains solid lubricants.

Typical Properties

| Norm | | | | |
|-------------|--|--------------------------|-----------|-----------|
| | Thickener | Inorganic | | |
| | Base Oil | Vegetable Ester | | |
| ASTM D-445 | Base Oil Viscosity at 40°C, cSt | 2600 | | |
| ASTM D-217 | NLGI Consistency Grade | 1 | 0 | 00 |
| ASTM D-217 | Cone Penetration at 25°C, 0.1mm | 310 - 330 | 350 - 370 | 400 - 430 |
| ASTM D-2265 | Dropping Point | 200°C / 392°F | | |
| ASTM D-2509 | Timken Ok Load, lb | 60 | 60 | 60 |
| ASTM D-2596 | Four Ball Weld Point, kgf | 800 | 800 | 800 |
| ASTM D-2266 | Four Ball Wear, mm | 0.5 | 0.5 | 0.5 |
| OECD-301B | Biodegradability in 28 Days (> 60%)* | Pass | | |
| LT-37 | U.S. Steel Mobility of Grease at 32°F, g/sec | 0.02 | | |
| | Temperature Range | 5 to 140°C / 41 to 284°F | | |

* Note: The base oil of this product is considered biodegradable based on the raw materials used according to documentation published by the EPA.

Applications and use

- Rotating gears of blades.
- Bucket zippers.
- Gear bushings and zippers.
- Open gears of low speed.
- Steel cables for traveling and loading cranes.

Appearance

- Color: Black
- Texture: Adherent

Note: To facilitate visual inspection of the mechanisms, Bioshovel Gear acquires a translucent film when applied to the metal surface.

Packages

Pail: 18kg
Drum: 180kg

Applying Methods

- Manually
- Centralized systems



Open Gears



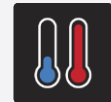
Sliding Bearings



Cable



Biodegradable



Extreme temperatures



High Load



Vibration and Impact

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