



# ENVIROLOGIC®

## ENVIROLOGIC® WREP GREASES

### Water Resistant, Extreme Pressure, Readily Biodegradable Greases

#### Biodegradable Lithium Complex Greases

EnviroLogic® WREP greases were specifically developed for marine and outdoor lubricant applications. These Lithium Complex greases are made with PAO and related hydrocarbon base oils and are designed to provide a no-compromise option for high performance applications that require the grease to remain in place - even under water. These greases have a high level of performance in corrosive applications that demand durable adhesive characteristics, low temperature pumpability and high temperature stability and high load protection.

EnviroLogic® WREP Greases are readily biodegradable, minimally toxic to aquatic life and animals and are Environmentally Acceptable Lubricants (EALs) compliant with the 2013 US EPA Vessel General Permit (VGP).

These greases are oxidatively stable, pumpable, shear stable and offer excellent sealing properties to keep water and debris out. EnviroLogic® Grease #00, #0, #1 and #2 offer:

- Outstanding resistance to water spray off and wash out
- Extreme pressure and anti-wear performance
- Broad operating temperature range (400°F to below freezing)
- Ferrous and yellow metal corrosion protection

#### Applications

##### OFFSHORE

- Wire Ropes
- Rudders
- Clamshell Diggers
- Harbor Skimmers
- Mobile Drilling Rigs
- Jack up Legs

##### GLOBAL MARINE

- Fin Stabilizers
- Steering Shaft Bearings
- RORO Hatches
- Cargo Hold Doors
- Stern Tube Seals
- Centralized Delivery Systems
- Rudder Stock

##### DREDGING & MARINE CONSTRUCTION

- Towing Pins
- Hopper Dredgers
- Anchor Handling Winches

##### INDUSTRIAL

- Cranes
- Construction Equipment
- Trailers
- King Pins
- Vehicle Chassis
- Outdoor Steel Surfaces

##### OTHER

- Forestry Equipment
- Fish Ladders
- Railroad Tracks and Switchplates
- Locks and Dams
- Articulated Tug Barges
- Subways



# ENVIROLOGIC® GREASES

| Typical Properties                                  | EnviroLogic® WREP GREASES        |                    |                   |                                  |
|---|----------------------------------|--------------------|-------------------|----------------------------------|
| EnviroLogic® Product Number                         | GREASE 2 WREP                    | GREASE 1 WREP      | GREASE 0 WREP     | GREASE 00 WREP                   |
| NLGI Grade  | 2                                | 1                  | 0                 | 00                               |
| Worked Penetration, (mm/10), ASTM D217              | 275                              | 320                | 365               | 415                              |
| Color   | Blue-Green                       | Blue-Green         | Blue-Green        | Blue-Green                       |
| Texture   | Tacky-Smooth                     | Tacky-Smooth       | Tacky-Smooth      | Tacky-Smooth                     |
| Thickener   | Lithium Complex                  | Lithium Complex    | Lithium Complex   | Lithium Complex                  |
| Dropping Point, °C, ASTM D2265                      | >260                             | >260               | N/A               | N/A                              |
| Base Oil Type                                       | HEPR                             | HEPR               | HEPR              | HEPR                             |
| Biodegradability, OECD 301B                         | >60                              | >60                | >60               | >60                              |
| Four-Ball Weld, (kgf), ASTM D2596                   | 400                              | 400                | 400               | 315                              |
| Four-Ball Wear, mm, ASTM D2266                      | 0.44                             | 0.45               | 0.40              | 0.37                             |
| Timken OK Load, lbs., ASTM D2509                    | 55 Pass                          | 50 Pass            | 50 Pass           | N/A                              |
| Water Spray Off, (% loss), ASTM D4049               | 4                                | 25                 | 55                | 70                               |
| Water Washout, (% loss), ASTM D1264                 | 4                                | 4                  | 4                 | N/A                              |
| Steel Corrosion, Water ASTM D1743                   | Pass                             | Pass               | Pass              | N/A                              |
| Steel Corrosion, 5% Synthetic Sea Water, ASTM D5969 | Pass                             | Pass               | N/A               | N/A                              |
| Salt Spray, ASTM B117                               | 1,000 Pass / 10 out of 10 Rating | N/A                | N/A               | 1,500 Pass / 10 out of 10 Rating |
| Humidity Cabinet, ASTM D1748                        | 1,500 Pass / 10 out of 10 Rating | N/A                | N/A               | N/A                              |
| Copper Corrosion, ASTM D4048                        | 1b                               | 1b                 | 1b                | 1b                               |
| Grease Mobility, g/min., US Steel Method LT-37      | 30 @ 40°F (-4°C)                 | 24.5 @ 0°F (-18°C) | 40 @ 0°F (-18°C)  | N/A                              |
| Lincoln Ventmeter, PSI K95400                       | N/A                              | 390 @ 30°F (-1°C)  | 260 @ 30°F (-1°C) | N/A                              |
| Low Temperature Torque @ -40°C, Nm, ASTM 4693       | 1.87                             | N/A                | N/A               | N/A                              |

## OEM Approvals

EnviroLogic® Greases meet the requirements for various original equipment manufacturers. Please contact customer service for a full list of OEM approvals.

For more information about RSC Bio Solutions, visit us at [rscbio.com](http://rscbio.com) or call +1 704.684.6100.

