

GREASE-PLUS ECO SF 0

BIODEGRADABLE GREASES

326200401




BIODEGRADABLE WATER RESISTANT GREASES

This environmentally-friendly product provides an excellent balance between lubricating-anticorrosive capacity and environmental requirements. Its superior sealing capacity and strong resistance to water action, combined with good adhesion and affinity to metal surfaces make it ideal for use in various applications, including water treatment plants. Based on a biodegradable ester and an essentially non-toxic additive package, this product eliminates the contaminating effect of the grease on the environment. Its base oil, with high viscosity and lubricating film, outperforms conventional greases, especially at elevated temperatures. This product has been successfully used for pumps in water treatment plants, specifically for lower bearings of Archimedes' screws and chain lubrication of cleaning bars in bio discs. Compared to conventional calcium greases, it offers better pumpability, lubricating capacity, and outstanding water resistance. Water treatment plants are typically found in urban and populated areas, and an average-sized plant consumes around 15-20 MT annually. This

product has a broad range of applications and can be used in temperatures ranging from -20 to 120 °C. It creates an adhesive film on surfaces that operate under moderate to heavy loads, and its thickener system and special additives provide excellent resistance to water, moisture, and ambient conditions. It is suitable for use in a variety of equipment, including forest machinery, public works machinery, nautical mechanisms, various mechanisms in water treatment plants, water pumping installations, mechanisms in contact with water, and car body protection.

| PROPERTY | METHOD | VALUE |
|--|---------------|------------|
| Thickener, soap type | | Calcium |
| Base oil nature | | Ester |
| Base oil viscosity @ 40 °C, mm ² /s | | 250 |
| NLGI class | DIN 51 818 | 0 |
| Worked penetration 60 W, 0.1 mm | ASTM D217 | 355-385 |
| Dropping point, °C min | ASTM D566 | 140 |
| Copper corrosion 24h @ 100 °C | ASTM D4048 | 1b |
| Water washout @ 40 °C, % | ASTM D1264 | 1 |
| Flow pressure @ -25 °C, mbar | DIN 51 805 | 1000 |
| 4-ball wear test - Welding load, kg | IP 239 | 250 |
| 4-ball wear test - Wear scar diameter 1/80 kg, mm | IP 239 | 0.60 |
| EMCOR corrosion test | DIN 51 802 | 0 |
| Oil separation, 7 days/40 °C, % | IP 121 | 3.5 |
| Water washout 3 hrs/90 °C | DIN 51 807 | 0 |
| Oxidation stability @ 100 °C, kg/cm ² , max | ASTM D972 | 0.8 |
| Evaporation loss, 22 hrs/100 °C, weight, % | ASTM D942 | 0.7 |
| Biodegradability test, % | CEC-L-33-A-93 | 91 |
| Service temperatures, °C | | - 20 - 120 |

CATEGORY

 Greases

BENEFITS

All data on this technical data sheet is indicative only

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