



## Product Data Sheet

OPTIMOL OLIT CLS - solid-free, extremely water resistant lithium/calcium soap grease with wide temperature application range. High performance base materials and a special production process in combination with a synergetic additive combination insure excellent wear protection even under severe conditions. For long-term lubrication and extended relubrication intervals. High operational reliability in progressive central lubrication distribution system metering blocks. Does not separate under extremes of pressure in long lubrication lines.

### APPLICATION

Specification of antifriction bearing manufacturers should be followed. Fill antifriction bearing housing only about half-full with grease. For relubrication, grease bearing until new grease appears at vent point. Apply a layer of grease on antifriction bearing seals as a barrier. Maximum performance only if applied unmixed.

### ADVANTAGES

- Extremely water-resistant
- Good pumpability in central lubrication systems
- Outstanding load carrying ability
- Good anti-wear properties
- Resistance to foam detergents and cleaning water in the food industry
- Excellent corrosion protection
- Aging-resistant and shear-stable
- Resistant to aqueous alkaline solutions and acids
- Long-term lubricating effect
- Temperature range: -30°C/-22°F to +120°C/+ 248°F
- USDA H2 approval

### USAGE

Under severe operating conditions, i.e., lubrication points exposed to the weather, moisture, dust and high loads.

In highly loaded, plain and antifriction bearings of construction and off-road machines, cranes and agricultural vehicles.

As an "underwater grease" for dredgers, lifting gears and similar machines in gravel plants and sewage treatment plants.

For lubrication of bearings in the beverage industry, in breweries, dairies and in the sugar industry.

No separation of oil and soap in progressive central lubrication systems (working pressures >150 bars). No downtime due to choked metering blocks and lines.

Typical grease for spring and pressure loaded lubricators.

According to USDA H2, this product can be used in the food and beverage industries where there is no possibility of food contact.

## TYPICAL PROPERTIES

## OPTIMOL OLIT CLS

|   |                             |
|---|-----------------------------|
| Color   | yellowish                   |
| Base  | lithium-calcium/mineral oil |
| Consistency/NLGI grade, DIN 51818                       | 2                           |
| Worked Penetration Pw 60, 0.1mm, DIN ISO 2137           | 285                         |
| Density, DIN 51757, g/cm <sup>3</sup><br>@ 20°C/68°F    | 0.905                       |
| Dropping Point, DIN ISO 2176                            | 148°C/298.4°F               |
| Water Resistance, DIN 51807 T.1<br>@ 90°C/194°F         | 1                           |
| Corrosion Protection (SKF Emscor), DIN 51802            | 0                           |
| Copper Corrosion Protection, DIN 51811<br>@ 100°C/212°F | 0                           |
| Oil Separation, DIN 51817, weight %                     | 1.44                        |
| Flow Pressure, DIN 51805, mbar<br>@ -35°C/-31°F         | <1100                       |

Subject to usual manufacturing tolerances