

## Longlife 1200 - Synthetic Hydrocarbon Grease

### Description

Longlife 1200 is a multi-purpose synthetic grease developed for high speed turbine engine bearings and conforms to Mil-G-81322E. It has excellent long life and anti-rust properties for service temperatures ranging from -80°F to 400°F. It can be operated to 600°F, depending upon speed and load, environmental factors, and relubrication frequency.

### Application

Longlife 1200 is highly recommended for use in a wide range of industrial equipment. Use on sheathed cables, O-rings, seals, gears, ball, roller, and plain spherical bearings. It is especially suitable for use in plastic and/or metal gear boxes where service temperature range and minimal evaporative losses are critical.

### Physical Properties

- NLGI No. 2
- Color/texture - tan/smooth
- Unworked penetration - D-1403: 270
- Worked 60 penetration - D-1403: 285
- Worked stability - FED-STD-791, method 313@ 100,000 strokes: 310
- Oxidation stability - D-942, psi drop: 100 hr. @ 212°F, -2.5 psi 500 hr. @ 212°F, -9.0 psi
- Oil separation - Fed-STD-791, method 321: 30 hr. @ 212°F, -0.90% 30 hr. @ 350°F, 3.50%
- Dropping point - D-2265, 550°F, 288°C
- Evaporation - D-2595: 22 hr. @ 210°F, 0.50% 22 hr. @ 350°F, 5.40%
- Dirt count - Fed-STD-791, method 3005: 10 to 75 microns, 65/cc over 75 microns, 0/cc
- Rubber swell, FED-STD-791, method 3603, "L" stock 168 hrs. @ 158°F: 4.0%
- Rust preventive properties - D-1743, 48 hrs. @ 125°F: 1
- Load wear index, ASTM D-2596, @ 77°F: 48.0
- Last non-seizure, (load/wear scar): 100kg/0.454 mm<sup>7</sup>
- Last seizure (load/wear scar): 126kg/2.590 mm
- Weld point (load): 250 kg
- Steel-on-steel wear, ASTM D-2266, (52100 steel), 1200 rpm, 40 kg. 2 hrs. @ 167°F: 0.7 mm, 1200 RPM, 40 kg. 2 hrs. @ 350°F: 0.8 mm
- Coefficient of friction, 1200 RPM, 90°F, 15 kg load: 0.09
- Gear wear, FED-STD-791, method 335, 1000 cycles: 5 lb load, 0.68 mg, 10 lb load, 1.60 mg
- High temperature performance, ASTM D-3336: 300°F, 10,000 rpm, 50 lb, 2,500 hrs plus 350°F, 10,000 rpm, 50 lb, 525 hrs, 350°F, 10,000 rpm, 5 lb, 1,000 hrs plus 400°F, 10,000 rpm, 50 lb, 264 hrs
- Low temperature torque, ASTM D-1478: @ -65°F, starting, 1,534 g-cm running, 649 g-cm
- Corrosion on copper: 24 hrs @ 212°F, 1a no stain

### Product Code - LL1200