



TECHNICAL DATA SHEET

OMNILITH™ 500 EXTREME PRESSURE GREASE

Omnilith™ 500 is an extreme pressure grease suitable for use in severe applications across a wide variety of operating conditions including high load, moisture, and a wide speed range.

The lithium complex soap base allows for use at temperatures up to 450°F (232°C). Omnilith™ 500 EP 2 is the ideal choice as multipurpose grease in heavy-duty industry where extreme pressure or high temperature performance is required.

Omnilith™ 500 EP 1 grade is softer and is highly recommended for use in auto-lube systems and in winter conditions.

Maximum DN factor: 300,000 (NLGI Grade 2)
 Maximum continuous temperature: 350°F (177°C)
 Maximum occasional temperature: 450°F (232°C)
 Appearance: Red, Tacky

BENEFITS:

- RESISTS WEAR - extends equipment life.
- WATER RESISTANT - stays in place when exposed to moisture.
- CORROSION INHIBITED - protects metal parts from effects of oxidation.
- MECHANICALLY STABLE - resists separation. Excellent for pumping through automatic lubrication systems.
- BROAD APPLICATION - suitable for use in a wide variety of applications at low or high temperatures, and over a wide speed range.

APPLICATIONS:

Universal grease for general applications, i.e. moisture, dust, vibration, shock loads, and extreme pressure. Use on electric motors, construction machines, vehicles, agricultural equipment, cranes, stackers, conveyor trolley bearings, and general industrial equipment. In wet or dirty environments, i.e. service stations, textile washing machines, pumps. In heavily loaded antifriction and plain bearings of mobile equipment, i.e. tie rod joints, universal joints, brake camshafts and splined shafts of motor vehicles, threaded spindles and guides of hoists, and bearing surfaces exposed to heavy loads. Recommended for use on wire ropes when applied using a pneumatic wire rope grease injector.

| ASTM # | Grade | TYPICAL CHARACTERISTICS | |
|-----------------|---|-------------------------|----------------------|
| | | 1 | 2 |
| D-217 | Cone Penetration (Worked) | 310-340 | 265-295 |
| D-566 | Dropping Point, °F (°C) | 500 (260) | 500 (260) |
| D-445 | Kinematic Viscosity (Base Oil) | | |
| | cSt @ 40°C | 455 | 455 |
| | cSt @ 100°C | 31 | 31 |
| Gardner Method | Density, lb/gal @ 60°F (15.5°C) | 7.60 | 7.65 |
| | Specific Gravity, g/cc @ 60°F (15.5°C) | 0.913 | 0.919 |
| D-2509 | Timken OK Load, lb | 65 | 65 |
| D-2596 | Four Ball EP, Weld Point, kg | 800 | 800 |
| D-2266 | Four Ball Wear, Scar Width, mm | 0.56 | 0.56 |
| D-1264 | Water Washout, % Loss | <10 | <5 |
| D-1743 | Rust Test | Pass | Pass |
| D-4048 Modified | Copper Strip Corrosion for Greases 212°F (100°C) @ 3 hrs | 1B | 1B |
| | Thickener Type | Lithium Complex | Lithium Complex |
| | Color | Red | Red |
| OEM Standard | Low Temperature Pumpability Lincoln Ventmeter @ 400 psi, °F (°C) | 0 (-18) | 10 (-12) |
| | Ambient temperature range, °F (°C) | -13 (-25) to 300 (150) | 0 (-18) to 300 (150) |

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

PACKAGING

| | | | | |
|---------------|-------|------|-------|---------------------------|
| Shuttle Tanks | Drums | Kegs | Pails | Cartridges 50 per case |
|---------------|-------|------|-------|---------------------------|

THE WHITMORE MANUFACTURING COMPANY

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