WHITMORE'S

# TECHNICAL DATA SHEET

# OMNITEMP®

## HIGH TEMPERATURE GREASE

Whitmore's Omnitemp® is specifically formulated to withstand the rigorous effects of high temperatures. Its non-melting base ensures that it remains in service when other greases would melt and/or run out. Omnitemp® offers unmatched protection when high temperatures are a consideration. This is of benefit to industries involved in the production of paper, glass, brick and ceramics, as well as power generation, metal producing and processing,

While high temperatures will not cause Omnitemp® to melt out of the bearing, care should be taken to provide adequate relubrication. Inadequate replenishment will lead to drying and hardening.

| | |
|---|---|
| Maximum DN Factor: | 50,000 |
| Ideal Operating Range: | 150-300°F (66-149°C) |
| Upper Limit: (with frequent relubrication) | 400°F (204°C) |
| Appearance: | Dark Gray, Smooth, Buttery |

To calculate the DN factor of a bearing, use the following:
DN factor = dm x rpm
Where dm = (inside diameter in millimeters + outside diameter) ÷ 2.

**BENEFITS:**

- OXIDATION INHIBITION - fortified with antioxidants to resist hardening and thermal breakdown.
- SEALS OUT DIRT AND CONTAMINANTS - forms a protective barrier which reduces wear.
- NON-DROP BASE - will not melt and/or run out.
- CONTAINS SOLID LUBRICANTS - solid film lubricant plates out on metal surfaces to reduce metal-to-metal contact.
- CORROSION INHIBITED - protects against rust and corrosion.

**APPLICATIONS:**

Omnitemp® is recommended for the lubrication of bearings, bushings and slides that operate at high temperature such as kiln car bearings, oven conveyor bearings, furnace fan bearings, paper mill dryers, corrugators, trunnion bearings, soot blowers, Lehr bearings, and other severe service applications. Highly recommended for hydraulic hammer lubrication.

| ASTM # | | TYPICAL CHARACTERISTICS | |
|---|---|---|---|
| | **Grade** | 1 | 2 |
| **D-217** | **Cone Penetration** (Worked) | 310-340 | 265-295 |
| **D-2265** | **Dropping Point**, °F (°C) | None | None |
| **D-2270** | **Viscosity Index** | 101 | 101 |
| **D-445** | **Kinematic Viscosity** | | |
| | cSt @ 40°C | 500 | 500 |
| | cSt @ 100°C | 32 | 32 |
| **D-2161** | **Saybolt Viscosity** | | |
| | SUS @ 100°F | 2,625 | 2,625 |
| | SUS @ 210°F | 160 | 160 |
| **Gardner Method** | **Density**, lb/gl @ 60°F (15.5°C) | 7.50 | 7.50 |
| | **Specific Gravity**, g/cc @ 60°F (15.5°C) | 0.900 | 0.900 |
| **D-92** | **Flash Point**, °F (°C) Cleveland Open Cup (Base Oils) | >580 (>304) | >580 (>304) |
| **D-1743** | **Rust Test** | Pass | Pass |
| | **Thickener Type** | Inorganic | Inorganic |
| **OEM Standard** | **Low Temperature Pumpability** | | |
| | Lincoln Ventmeter @ 400 psi, °F (°C) | 0 (-18) | 10 (-12) |
| | **Appearance** | Gray, Buttery | Gray, Buttery |

*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 |
|---|---|---|---|---|

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TDS-2006 3-20-08 kc