



## Tena-Film Multi-Purpose Automotive Grease No. 2500-2ST

### Physical Properties & Features:

TENA-FILM MULTI-PURPOSE AUTOMOTIVE GREASE No. 2500-2ST is made from a unique synthetic gelling agent and a high gravity, 100% paraffin, dewaxed oil having a minimum Viscosity Index of 95. This grease is a superior lubricant because of its stable gel structure in the presence of intense heat, moisture and severe mechanical shearing action, and its ability to provide a tenacious, longlasting, high lubricity film on ALL metal surfaces. The TENA-FILM gel softens gradually as the temperature rises but still remains intact (does not melt). At low temperatures, it remains pliable without caking or hardening, whereas, the conventional (soap base) greases soften and separate rapidly as the temperature rises and they stiffen rapidly and excessively as the temperature drops. The grease is an all weather lubricant designed for usage in all types of light and heavy duty vehicles, such as, automobiles, trucks, buses, earth moving equipment, etc., wherever a non-fluid lubricant is indicated.

### Specifications:

- |  |                              |
|--|------------------------------|
| • Worked Penetration @ 77° F.  | -265/295                     |
| • Metallic Soap  | -None                        |
| • Gelling Agent  | -Baragel/Synthetic Thickener |
| • Fillers  | -None                        |
| • Water  | -0.1%                        |
| • Free Fatty Acid %  | -0                           |
| • Alkali %   | -0                           |
| • Corrosion  | -Negative                    |
| • Dropping Point   | -None (NOMELT)               |
| • Color  | -Greenish-Brown              |
| • Texture  | -Tacky-stringy               |
| • Mineral Oil % Min.   | - 91                         |
| • Norman Hoffman Oxygen Bomb Test, No. sq. in. Pressure drop in 100 hrs. operation, Max. | - 5                          |

### **Properties of Base Oil:**

- |                                |        |
|--------------------------------|--------|
| Viscosity @ 100° F., sec. S.U. | - 2500 |
| Flash, ° F., min.              | - 600  |
| Carbon Res., Conradson, %      | - .03  |
| Pumpable @ ° F.                | - +10  |

## **APPLICATION:**

TENA-FILM must be allowed to get 100% in the bearings and should not be mixed thereafter with other greases. It usually takes several greasings, depending on the size of the bearings, before the full benefits can be obtained. In sealed bearings, especially, TENA-FILM always performs best in smaller amounts than would normally be used with conventional greases, about ½ to 1/3 as much per application. An effective way to control greasing with TENA-FILM in ordinary grease fittings is to use a hand gun, giving HALF strokes on the charging handle per shot, instead of full strokes. If pressure guns are used, squeeze the trigger just enough to crack it per shot.

### **Some major grease points are:**

- (a) Chassis grease fittings
- (b) Wheel bearings
- (c) Shackle grease fittings
- (d) Tie-rods
- (e) Universal joints (usually hand packed)

In chassis fittings, TENA-FILM has proven, through numerous road tests, to give from 2 to 8 ½ times longer service than the best conventional greases, once it has become the sole resident grease.

In Wheel Bearings, the service life of TENA-FILM far surpasses the best conventional greases if used properly. The correct way to lubricate a wheel bearing with TENA-FILM is to remove the bearing and clean out all of the previous grease. Swab TENA-FILM on the bearing and wipe a thin film on the tapered shaft and replace. Use a Grease Packer if available. **DO NOT PACK ANY ADDITIONAL GREASE AROUND THE BEARING OR IN THE HUB.** Mechanics have been accustomed to using fibrous sodium base greases in wheel bearings for years and they have a natural tendency to add more of thin buttery type grease such as TENA-FILM. **LUBRICATE JUST THE BEARING, NOT THE CAVITIES AROUND IT.**

## **Advantages of TENA-FILM over other Multi-purpose Automotive greases:**

1. Has a much wider operating temperature range than other greases of equal or heavier consistency and is more mechanically stable. Withstands greater and longer shearing action (rolling, churning & oscillating) without degelling.
2. Has a greater tenacity to all metal surfaces – stays put.
3. Excellent water Resistance. Tests reveal that TENA-FILM No. 2500-2ST does not de-gel in the presence of large quantities of moisture – absorbs up to 125% moisture as against about 40% with conventional greases.
4. Does not cake, harden or run dry in bearings, due to the absence of soap gelling agents in formula.
5. Provides a Self-seal against contaminants. TENA-FILM maintains its film consistency around a bearing, thus, preventing dirt and foreign particles from working into the bearing.

6. Gel structure is not affected by acids and most other chemicals.
  7. Resists the catalytic oxidizing action of the metal particles, which tend to break down conventional greases.
  8. Provides superior film strength and lubricity – has natural Extreme Pressure characteristics. Contains less gelling agent and therefore has more lubricating ability.
  9. Negligible syneresis (bleeding) in storage and less than 4% under normal operating conditions.
  10. Never turns rancid nor dries out in storage.
  11. Has superb oxidation storage and operating stability. Norma Hoffman Oxygen Bomb Tests show a pressure drop of only 5 lbs. max., p.s.i. in 100 hours continuous operation.
  12. Non-corrosive.
  13. Has no objectionable odor. The fumes from dispersant aids and additives are driven off under high heat of our PRE-GEL compounding, which neutralizes odor.
  14. Non-abrasive and safe for use anywhere. It's oxidized residue or ash will not scratch glass.
- Completely Non-toxic – will not cause Dermatitis. Approved by the U.S. Department of Agriculture.