



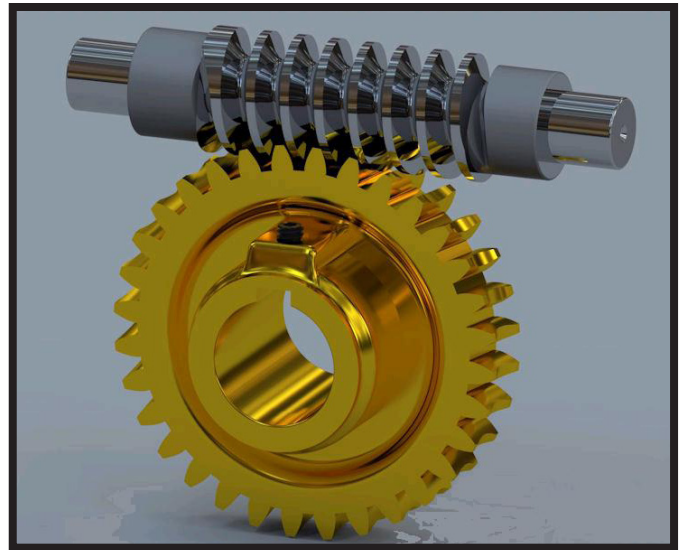
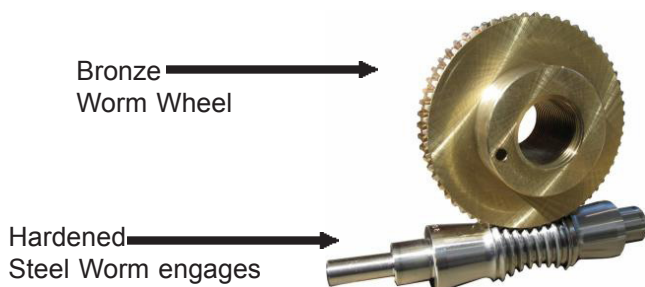
WORM GEAR LUBRICANT

- WATER RESISTANT
- CONTROLS FOAM
- HAS LONG LIFE
- SUPERIOR QUALITY
- ADHESIVE AND COHESIVE

Texas Refinery Corp. WORM GEAR LUBRICANT is a fabulous product, especially where the worm wheel portion of the gear set is made of yellow metal (bronze) and extreme pressure gear lubricants cannot be used. Texas Refinery Corp. uses acidless tallow as the metal wetting agent. Great care has been taken to ensure adequate anti-oxidation additives are in the formula so the acidless tallow has long life in this application.

WORM GEAR LUBRICANT Is Water Resistant

Texas Refinery Corp. WORM GEAR LUBRICANT has been formulated to be water resistant. The special compounding not only enables this product to resist the washing effects of moisture, it actually augments its ability to maintain adequate lubricating and sealing films. Some companies have to go to much heavier weight oils to overcome moisture; however, the Texas Refinery Corp. product is an extremely popular viscosity that resists moisture and, therefore, excessive viscosity is not necessary. Also remember, excessive viscosity creates extra drag on gears - - - increasing heat and wasting energy. Texas Refinery Corp. WORM GEAR LUBRICANT reduces friction and is energy efficient.



The two members of a worm gear set are known as the worm and the worm wheel, or gear.

WORM GEAR LUBRICANT Controls Foam

Texas Refinery Corp. has formulated WORM GEAR LUBRICANT with special anti-foam agents to ensure any air getting into the lubricant will rise to the surface and the bubble will break, releasing the air. The ability to reduce foam helps to lower temperatures while ensuring a reduction in friction by lubricating better. The lubricant without air in it is practically non-compressible, whereas a lubricant with air in it can be ruptured, allowing metal to metal contact, increased heat, increased wear and greatly increased energy consumption.

WORM GEAR LUBRICANT Has Long Life

Texas Refinery Corp. WORM GEAR LUBRICANT is formulated with acidless tallow. Texas Refinery Corp. went to great lengths to ensure adequate anti-oxidation additives were used in the formula. These special additives lengthen the life of the tallow and ensure the tallow's ability to wet the metal, provide lubrication and give long life to the lubricant. Superior quality, acidless tallow used by Texas Refinery Corp. enhances the load carrying capability of WORM GEAR LUBRICANT.

Texas Refinery Corp. WORM GEAR LUBRICANT also will not tarnish or chemically attack the yellow metal (bronze) used in the worm wheel part of the gear set. The ASTM D-130 copper corrosion test gives Texas Refinery Corp. WORM GEAR LUBRICANT the highest rating - - 1a. This means only a slight color change from the way the new copper strip looked before the test.

WORM GEAR LUBRICANT **Uses Superior Quality Acidless Tallow**

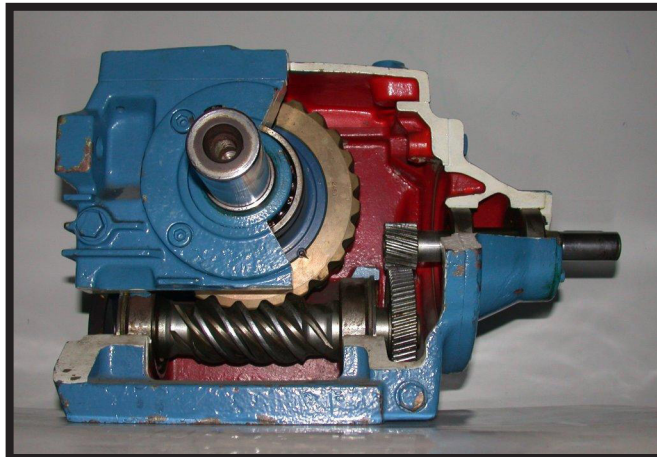
Texas Refinery Corp. searched for superior quality, acidless tallow for the formulation of WORM GEAR LUBRICANT. Once a superior supply was secured, testing made sure the tallow would lubricate the worm gear set and resist the sliding or wiping action of such a gear system. You will find WORM GEAR LUBRICANT will adhere to the metal and resist the sliding and wiping action. The acidless tallow even functions in worm gear drives that are overloaded. Most worm gear sets with bronze worm wheels recommend an acidless tallow-type product with approximately 3% to 5% acidless tallow. The Texas Refinery Corp. product uses 5% acidless tallow and does a wonderful job of providing a lower coefficient of friction - - - lowering temperatures and wear, and reducing energy consumption.

WORM GEAR LUBRICANT **Is Adhesive and Cohesive**

Texas Refinery Corp. WORM GEAR LUBRICANT is adhesive and cohesive. In some situations the worm shaft is positioned under the gear and it is this anti-friction bearing, used on the worm shaft, to take end thrust, which is the real problem in this type of gear set.

When the worm shaft is positioned under the worm wheel, some companies recommend worm gear oils that are very light weight (to lubricate the bearings), but the light oil allows excessive metal to metal contact of worm shaft and worm wheel. The extremely light oils allow excessive friction and wear of the gear set as well as increased energy consumption.

In those situations where the worm shaft is positioned under the worm wheel, Texas Refinery Corp. WORM GEAR LUBRICANT is adhesive and cohesive so the lubricant will cling to the worm shaft bearings, helping to prevent friction without having excessive light viscosity. Since Texas Refinery Corp. WORM GEAR LUBRICANT is a slightly heavier viscosity than some worm gear lubricants, it will provide excellent lubrication to the bearings without sacrificing any lubrication to the worm gear set.



Worm gear set

In those situations where the worm shaft is located above the gear, many companies try to go to much higher viscosity oils to follow the wheel and lubricate the worm. Texas Refinery Corp. has found the ISO 680 weight (AGMA #8 COMP.), along with adhesive and cohesive additives, is perfect for the majority of applications. If too high a viscosity is used the worm shaft bearings could suffer, so again, the Texas Refinery Corp. WORM GEAR LUBRICANT ISO 680 (AGMA #8 Comp.) is the perfect product for most applications.

SPECIFICATIONS

TRC WORM GEAR LUBRICANT

Product Code #8325

ISO 680
AGMA #8 COMP.

Texas Refinery Corp. WORM GEAR LUBRICANT also meets AGMA 250.04 requirements for a compounded Non-EP gear oil

Viscosity @ 210° F, SUS
Viscosity @ 100° F, SUS
Viscosity Index
Viscosity @ 40° C, cSt

180.0
2943.0-3152.0
100 min.
635.0-680.0

Pour Point, °F

+10

Specific Gravity
Weight/gallon

.90
7.53

Demulsibility, ASTM D-2711
Copper Corrosion, ASTM D-130

pass
1a

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