



# **ULTREX<sup>™</sup>**

## **Gear & Bearing Oil**

### **ISO 220**

BULLETIN 81100e



**Superior protection against leaking seals, dry starts, water contamination, oxidation and foaming.**

**UP TO 4 TIMES LONGER LIFE**

**P**rovides Superior Equipment Protection for TESCO Swivels

- Helps Eliminate Dry Start Wear
- Helps Prevent Seals from Leaking
- Prevents Rust and Corrosion
- Displaces Water for Easy Drainage
- Controls Foaming
- Lowers Operating Temperature and Resists Oxidation to Prolong Oil Life
- ISO 460 & 680 Ideal for Bronze Gears
- Wide Temperature Range – Operates from -7° C to 135° C (20° F to 275° F).

#### **Meets or Exceeds the Following Performance Requirements:**

- All API GL-3, GL-4 (most GL-1 and GL-2 applications)
- DIN 51517 Part 3
- David Brown S1.53.101
- Cincinnati Milacron P-59
- US Steel #224
- AGMA 9005, 215.02 and 250.04
- AGMA 4EP to 8 EP

#### **Part Number Order Information:**

5 USgal/19 L Pail #731165-19L  
55 USgal/208 L Drum #731165-208L  
330 USgal/1248 L Tote #731165-1248L

## A TOTAL ADDITIVE PACKAGE THAT SETS IT APART FROM ALL OTHER GEAR OILS

### ADDITIVES

<b>Premium Grade Base Oil</b>	Superior grade, highly-refined base oil resists oxidation and high-temperature breakdown to maintain better lubricity.
<b>Adhesive and Cohesive Polymers</b>	Keeps oil on gears during high-speed operations and during idle periods.
<b>Tackiness Agents</b>	Helps prevent mechanical wear, stress fractures and dry starts.
<b>Rust and Corrosion Inhibitors</b>	Blocks out corrosive elements such as acids, water, condensate and steam by forming a protective barrier on equipment surfaces to prevent chemical wear.
<b>Extreme Pressure (EP) Agents</b>	Heat seeking additive which increases the ability of the lubricant to prevent the extreme wear that can occur under loads.
<b>Oxidation Inhibitors</b>	Extends service life of the lubricant by retarding the oxidation or breakdown process.
<b>Shock Load Reducers</b>	Cushions impact to minimize the stress, vibration and chatter that can occur under heavy loads and during start-stop operations.
<b>Anti-Wear Agents</b>	Forms a lubricant film on metal surfaces in the presence of heavy loads and high temperatures. Prevents cold welding.
<b>Friction Reducers</b>	Plates out on metal surfaces to prevent friction and wear under heavy loads.
<b>Anti-Foam Agents</b>	Withstand agitation and heat without forming foam contaminants. Reduce pressure levels on seals and vents.

## PHYSICAL PROPERTIES

PROPERTIES	ISO 220
<b>Color:</b>	Red
<b>API Gravity 60/16° C(60° F):</b>	29.3
<b>Flash Point (COC):</b>	232° C (450° F)
<b>Pour Point:</b>	-9° C (15° F)
<b>Viscosity Index:</b>	102
<b>Kinematic Viscosity, CST @ 40° C (104° F):</b>	220.85
<b>Kinematic Viscosity, CST @ 100° C (212° F):</b>	20.94
<b>Operates Range</b>	-7° C to 135° C (20° F to 275° F).
<b>Rust Protection:</b>	Pass
<b>Corrosion Protection:</b>	1A
<b>4-Ball Wear Scar Dia.:</b>	0.32 mm (.0126 in)
<b>4-Ball Weld Load:</b>	250 kg (551 lbs)
<b>Timkin OK Load:</b>	29.5 kg (65 lbs)

### USED FOR:

Oil filled bearings; gear boxes including enclosed gears of spur type, hypoid, spiral bevel, worm, herringbone, helical, planetary and unusual combinations of gear types. Can be used as a cylinder oil, except for steam cylinders. Can be added as make up oil to other Industrial grade mineral gear oils.

### NOT FOR:

Do not use with copper, bronze worm gears.

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