



# LUBRICANTS

POWER TO PERFORM

## LIMAPLEX HT X 1 /2 INDUSTRIAL GREASES

### SPECIAL FEATURES

Multi Application Heavy Duty Grease. New technology calcium sulfonate grease with excellent water and corrosion resistance. Protected by passive E.P. solids, contains no metals or chemical E.P. 65lb Timken OK Load. Non Toxic USDA "H2" Rating. Operating Temperature Range - 25°C to 300°C.

Meets and exceeds NLGI GC-LB (GC-Wheel Bearing) (LB-Chassis) NLGI #2

### CHARACTERISTICS

Calcium Sulfonate Grease represents a new generation of grease technology comprising of an inorganic-organic calcium sulfonate complex thickener system. Lab and field testing has shown that Calcium Sulfonate Thickener system provides outstanding performance characteristics lubricating and safeguarding equipment. This will protect in conditions of high temperatures, humid wet areas where corrosion, extreme pressure (E.P.) and anti wear characteristics are required. It is designed for use where other premium greases are failing to meet the requirements of modern equipment. This is a high performance long life grease designed to extend machinery component life preventing downtime.

### NON TOXIC HEAVY METAL FREE, PASSIVE E.P. BOUNDARY LUBRICATION

Calcium Sulfonate grease contains no heavy metals or chemical E.P. Proprietary Solids from the carbon family sized between 0.1 and 0.5 micron provide boundary lubrication. Under heavy loads grease's Proprietary Solids form a rolling wedge between moving surfaces preventing metal to metal welding. Other high quality greases use metal to metal to generate the temperature 90° to 130°C necessary to activate the chemical E.P. used in boundary lubrication protection. Grease's E.P. solids offer the advantage of giving a continuous E.P. action irrespective of temperature and long before boundary lubrication conditions occur. Synthetic soap combined with high viscosity paraffinic base oils supply exceptional shear stability providing excellent anti wear and E.P performance. This extends bearing and seal life and reduces grease consumption.

### OXIDATION RESISTANT

The absence of heavy metals in this grease eliminates the oxidation catalyst allowing excellent performance in high temperature 24 Hrs Per Day applications. Normal chemical E.P. additives can promote oxidation when exposed to these conditions shortening grease and bearing life.

### EXCELLENT HIGH TEMPERATURE STABILITY

This grease resists burning and performs well at high temperatures, it is stable to 300° C. At these elevated temperatures frequency of greasing would be increased to counteract base oil evaporation and thickener cooking. Excellent Water and Corrosion resistance



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### LONG LIFE AND WEAR PROTECTION

Calcium Sulfonate Grease gives higher weld point value exceeds that of aluminium and lithium complex type greases. This allows to provide outstanding hydrodynamic and boundary lubrication giving up to 70% more protection than other premium greases. It is Environmentally Friendly. Has Low Toxicity. Reduces consumption, Less product used. Reduces Maintenance. Improves Bearing Life. Reduces Price/Performance Ratio. Reduces Stock and Handling. Will replace 5-6 normal Greases.

### MULTI APPLICATION GREASE & OFFERS EXCEPTIONAL PERFORMANCE IN

All Automotive Fleet Universal Joints -Ball Joints -Chassis Applications -Wheel Bearings -Axles-Conveyers -Pumps-Filters -Forging Presses -Ball Mills -Fifth Wheels -Crusher Bearings -Construction Equipment -Agricultural Equipment -Marine Equipment -Off Shore Equipment -Off Road Equipment -Mining -Metal Working Industry.

### PHYSICO-CHEMICAL PROPERTIES

	LIMAPLEX HTX 1	LIMAPLEX HTX 2	Test Method
NLGI Grade	NLGI 1	NLGI 2	NLGI
Appearance	smooth and uniform	smooth and uniform	visual
Penetration, Unworked Worked, 60 X	325 318	290 285	ASTM D 217
Base oil Viscosity t @ 100°C, cS Flash point, (COC)°C	24.00 270	24.00 270	ASTM D 445 ASTM D 92
Drop Point, °C	310	330	ASTM D 566
Copper corrosion, @100°C, 24hrs	No corrosion	No corrosion	IS 1448 P:51
EP tests, wear scar dia, mm Four ball weld Load, kg Timken OK Load, lb	0.44 500 60	0.42 600 70	ASTM D 2266 ASTM D 2596 ASTM D 2509