



ALITHICON 4500 SPECIAL LUBRICANT

THE **ALITHICON 4500 SPECIAL LUBRICANT** IS FORMULATED TO ENSURE THE FLEXIBILITY OF ROLLER CHAINS, ENSURING SMOOTH OPERATION, KEEPING CHAINS FROM JUMPING SPROCKETS AND GREATLY REDUCING BREAKAGE.

ROUGH CHAIN OPERATION INCREASES POWER CONSUMPTION. PREMATURE WEAR SHORTENS CHAIN AND SPROCKET LIFE, WHICH CAUSES RAPID CHAIN "STRETCHING", A CRITICAL FAILURE IN MACHINES WHERE MACHINERY SYNCHRONIZATION IS A CHAIN FUNCTION.

WHEN APPLIED TO ROLLER CHAINS, THE **ALITHICON 4500 SPECIAL LUBRICANT** READILY PENETRATES INTO THE PINS AND BUSHINGS, REDUCING WEAR AND EXTENDING CHAIN AND SPROCKET LIFE UP TO 400% LONGER THAN THE MORE COMMONLY USED LUBRICANTS.

BEING WATERPROOF, WATER AND STEAM DO NOT TEND TO WASH IT OFF, AND RUST AND CORROSION ARE ELIMINATED.

THE **ALITHICON 4500** IS A TACKY, WATERPROOF, DRIPLESS, HIGH TEMPERATURE (WITHSTANDING 580° F) LUBRICANT, MAKING IT UNMATCHED IN PERFORMANCE AS A CHAIN LUBRICANT.

THE **ALITHICON 4500 SPECIAL LUBRICANT** IS THE PREFERRED LUBRICANT, TO LUBRICATE WHEEL BEARINGS, WHICH ARE NORMALLY LUBRICATED WITH AN 85w/140 GEAR OIL. THE ALITHICON 4500 SPECIAL LUBRICANT WILL EXTEND WHEEL BEARING LIFE OF UP TO 400% LONGER, WHILE ELIMINATING SEAL SEAPAGE.

USER BENEFITS:

- * WATERPROOF
- * WITHSTANDS HIGH TEMPERATURES AS MUCH AS 580° F
- * ENSURES A SAFER, QUIETER OPERATION
- * ELIMINATES RUST AND CORROSION
- * VIRTUALLY ELIMINATES CHAIN STRETCHING
- * EXTENDS CHAIN, SPROCKET, AND CABLE LIFE UP TO 400%
- * **EXTENDS WHEEL BEARING LIFE OF UP TO 400%**
- * **ELIMINATES WHEEL BEARING SEAL LEAKS**
- * EASY TO APPLY
- * WILL NOT SLING OR DRIP

APPLICATIONS: READY-MIX CONCRETE TRUCK MIXING DRUM GEAR REDUCERS, ALL ROLLER CHAINS, CABLES, SLOW SPEED ENCLOSED GEAR REDUCERS, OIL FILLED WHEEL BEARINGS, SEMI-TRUCK TRAILER DOLLY GEARINGS, ROTARY MOWER GEAR REDUCERS, CONSTRUCTION EQUIPMENT SEALED TRACK ROLLERS, LUMBER MILL FETCHER SHAFTS, HOUR GLASS CONVEYOR CHAINS, PLANETARY GEARS, PLUS MANY MORE.

METHOD OF APPLICATIONS: SQUIRT CAN, PAINT BRUSH, FREE POURING, GREASE GUN, GEAR OIL PUMP, OR A CENTRALIZED LUBRICATING SYSTEM.

SEE REVERSE SIDE FOR TYPICAL SPECIFICATIONS.

ALITHICON 4500 SPECIAL LUBRICANT

TYPICAL SPECIFICATIONS AND TEST RESULTS

NLGI GRADE	00
WORKED PENETRATION	425
PROLONGED WORKED PENETRATION (ASTM D-217), % CHANGE	0
DROPPINT POINT, MIN. (ASTM D-566), ° F.	580
TIMKEN O.K. LOAD, lbs, MIN. (ASTM 2782)	80
ACID RESISTANCE	EXCELLENT
ROLL STABILITY (ASTM D-1831), % CHANGE	0.01
LEAKAGE TENDENCIES, % MAX. (ASTM D-1264)	0
WATER WASHOUT, % MAX. (ASTM D-1264) 30° C. (100° F.) 79° C. (175° F.)	0.01 0.012
OXIDATION STABILITY, MAX. (ASTM D-942) PRESSURE DROP @ 100 hrs, KPS (PSI)	2
FOUR BALL METHOD, MAX. OAD WHICH WELDING OCCURS, kg (lbs) (ASTM D-2266)	2.96
WEAR PREVENTATIVE CHARACTERISTICS (ASTM D-2266), MAX SCAR DIAMETER 40 kg LOAD, 1200 R.P.M.	1 mm
DENSITY, lbs PER GALLON	7.5
COPPER STRIP CORROSION (ASTM D-130)	1 A (PASS)
COLOR	BRONZE

ALITHICON 4500 SPECIAL LUBRICANT WHEEL BEARING

BENCH TEST RESULTS:

PHASE 1: WHEEL HUBS WERE FILLED WITH THE ALITHICON 4500 SPECIAL LUBRICANT. THE BEARINGS WERE LOADED TO 1,000 lbs OF TEST WEIGHT AND ROTATED FOR 150 MINUTES (2.5 HOURS), OR APPROXIMATELY 100 ROAD MILES. TEST END OPERATING TEMPERATURES WERE RECORDED: 84° F.

PHASE 2: AT THE END OF THE WHEEL BEARING TEST: PHASE #1, THE WHEEL BEARING RESERVOIR WAS DRAINED OF THE ALITHICON 4500 SPECIAL LUBRICANT, LEAVING THE LUBRICANT WHICH COATED THE BEARINGS. THE BEARINGS WERE LOADED TO 1,000 lbs WEIGHT AND ROTATED FOR 450 MINUTES (7.5 HOURS) OR APPROXIMATELY 300 MILES. TEST END OPERATING TEMPERATURES WERE RECORDED, 85° F. AFTER DISASSEMBLY, BEARINGS SHOW NO MEASURABLE SIGNS OF WEAR.

4500 LUBRICANT COMPATIBILITY

COMPATIBLE

INCOMPATIBLE

CALCIUM STEARATE	ALUMINUM COMPLEX	BARIUM COMPLEX
BENTONE / CLAY	CALCIUM COMPLEX	CALCIUM SULFONATE COMPLEX
CALCIUM 12-HYDROXY	LITHIUM STEARATE	LITHIUM 12-HYDROXY
SILICA	LITHIUM COMPLEX	POLYUREA SODIUM

AVAILABLE PACKAGING:

- * 45 lb (6 GALLON) PAIL
- * 120 lb (16 GALLON) KEG
- * 420 lb (55 GALLON) DRUM

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