

# **ALITHICON MEGA-THERM** **SYNTHETIC HIGH TEMPERATURE BEARING LUBRICANT**

THE **ALITHICON MEGA-THERM SYNTHETIC HIGH TEMPERATURE BEARING LUBRICANT** IS A NEW CONCEPT LUBRICANT, CONSISTING OF A FORMULATION OF NEVER-BEFORE USED INGREDIENTS, TO SUPPLY EXTRAORDINARY WEAR RESISTANCE IN TEMPERATURES RANGING FROM -60° F. TO 2,200° F. (-51° C. TO 1,204° C.).

THE **ALITHICON MEGA-THERM LUBRICANT** IS EASY TO APPLY, IN ITS GREASE OR PASTE FORM, AT AMBIENT TEMPERATURES, AND AFTER OPERATING TEMPERATURES HAVE EXCEEDED 800° F., THE FLUID LUBRICANT TOTALLY VOLATILIZES, LEAVING A NON-GUMMING OR NON-HARDENING RESIDUE WHICH CONTINUES TO PROVIDE PROTECTION IN EXTREME TEMPERATURES OF 2,200° F. THE **ALITHICON MEGA-THERM LUBRICANT** HAS AN AFFINITY TO METAL, WHICH ASSURES IT TO STAY PUT EVEN AT THE EXTREME ELEVATED TEMPERATURES.

THE **ALITHICON MEGA-THERM LUBRICANT** CONTAINS NO PARTICLES OF LEAD, COPPER, OR MOLYBDENUM DISULFIDE, SO IT IS SUITABLE FOR USE WITH STAINLESS ALLOYS, AT HIGH TEMPERATURES.

IT IS SOLUBLE WITH HYDROCARBON AND CHLOROHYDROCARBON SOLVENTS, AND INSOLUBLE WITH POLAR SOLVENTS, SUCH AS WATER, ETHYL ALCOHOL, ISO-PROPYL ALCOHOL, ACETONE, METHYL-ETHYL-KETONE AND GLACIAL ACETIC ACID, AT AMBIENT TEMPERATURES.

THE **ALITHICON MEGA-THERM LUBRICANT** IS EXCELLENT FOR USE IN HEAVY LOADED BEARINGS OR SLIDE APPLICATIONS. IT IS OUTSTANDING FOR JOURNAL AND CLOSE-TOLERANCE BEARINGS.

## **USER BENEFITS:**

- \* WATERPROOF
- \* CHEMICAL RESISTANT
- \* WILL NOT HARDEN IN SERVICE
- \* TIMKEN O.K. LOAD RATING, 100 lbs, MIN.
- \* GREATLY EXTENDS BEARING LIFE
- \* OPERATING TEMPERATURE RANGE -60° F. TO 2,200° F. (-51° C. TO 1,204° C.)
- \* ACCEPTABLE OPERATING BEARING SPEEDS 0 - 8,000 R.P.M.'S
- \* NON MELTING
- \* CONTAINS NO SILICONES
- \* PUMPS AT -60°F

## **APPLICATIONS:**

INGOT ALUMINUM ROLLING MILL PUSHER LUBRICANT, SOAKING PIT COVERS, SOAKING PIT CRANES, DUCTILE PIPE ANNEALING BEARINGS, ANNEALING PIT FURNACES, KILN CAR WHEELS, AGING OVEN CAR WHEEL BEARINGS, LADLE BEARINGS, OVEN CONVEYOR BEARINGS, HOMOGENIZER FAN BEARINGS, AGING OVEN FAN BEARINGS, AGING OVEN CAR WHEEL BEARINGS, EXPANDIBLE MANDRELS, EXTRUDER CASTING BEARINGS, AUTOCLAVES, SWEECO SCREEN BEARINGS, ROBBINS WEBB SCREEN BEARINGS, CALCINER BEARINGS, TEXTILE DRAW FRAME NEEDLE BEARINGS, ACUTATORS, ELECTRICAL GENERATING PLANTS, TURBINE GOVERNOR LINKAGE, TURBINE GIBS AND GUIDES, ECONOMIZER HOPPER BUTTERFLY VALVES, ALUMINUM PLANT PUSHER FURNACE INGOT CASTER RAILS, DAMPER BEARINGS, COATING DEPARTMENT PAPER ROLL SHEEVES BEARINGS, ROCK HAMMER PASTE LUBRICANT, LUBRICATING ALL BEARINGS, PINS, AND BUSHINGS AT EXTREME COLD TEMPERATURES.

THE **ALITHICON MEGA-THERM SYNTHETIC HIGH TEMPERATURE BEARING LUBRICANT** IS AVAILABLE IN (3) NLGI GRADES.

**FOR TECHNICAL SPECIFICATIONS, SEE REVERSE SIDE**

**ALITHICON MEGA-THERM SYNTHETIC HIGH TEMPERATURE BEARING LUBRICANT**

<b><u>TECHNICAL SPECIFICATION</u></b>	<b><u>ASTM TEST</u></b>	<b><u>MEGA-THERM 1</u></b>	<b><u>MEGA-THERM 2</u></b>	<b><u>MEGA-THERM 3</u></b>	<b><u>MEGA-THERM 5</u></b>
NLGI GRADE		00	0	1	2
PENETRATION, WORKED 60 STROKES 100,000 STROKES	D-217	408 411	365 367	335 338	278 280
COLOR		SILVER		SILVER	SILVER
DROPPING POINT	D-2265	NONE	NONE	NONE	NONE
BASE FLUID LUBRICANT VISCOSITY SUS @ 100° F.	D-445	745	745	190	745
FOUR-BALL WEAR TEST SCAR DIAMETER, mm, MAX.	D-2266	0.27	0.27	0.27	0.27
TIMKEN O.K. LOAD RATING, lbs, MIN.	2782	100	100	100	100
WATER WASH-OUT. 79° C. (175° F.), WT. %	D-1264	0.02	0.02	0.02	0.02
BASE FLUID VISCOSITY INDEX	D-2270	145	145	145	145
FOUR BALL E.P. TEST LOAD WEAR INDEX, kg. WELD LOAD, kg.	D-2783	160 800+	160 800+	160 800+	160 800+
FLUID LEAKAGE TENDENCIES, %	D-1263	0.4	0.4	0.4	0.2
LOW DISPENSABLE/PUMPABLE TEMP		-05°F	0°F	-60°F	0°F

**AVAILABLE PACKAGING:  
MEGA-THERM**

- |                          |                          |
|--------------------------|--------------------------|
| * 30 / 14.5 oz TUBE CASE | * 50 / 14.5 oz TUBE CASE |
| * 35 lb PAIL             | * 120 lb KEG             |
|                          | * 420 lb DRUM            |
| * 3,000 lb TOTE / BULK   |                          |

**MEGA-THERM COMPATIBLE LUBRICANTS**

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

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