



ALITHICON 3456 SYNTHETIC FLASH-FREEZE BEARING LUBRICANT (NLGI - 2)

THE **ALITHICON 3456 SYNTHETIC FLASH-FREEZE BEARING LUBRICANT** IS FORMULATED AND DESIGNED TO PROLONG AND SUCCESSFULLY PROTECT BEARINGS, WHICH MUST OPERATE IN EXTREMELY COLD TEMPERATURES AS LOW AS -50° F, BUT WILL ALSO PERFORM SUCCESSFULLY IN TEMPERATURES AS HIGH AS +500° F.

THE **ALITHICON 3456 SYNTHETIC FLASH-FREEZE BEARING LUBRICANT** CARRIES AN FDA / USDA RATING OF H-1, WHICH IS ACCEPTABLE FOR INCIDENTAL FOOD CONTACT.

THE **ALITHICON 3456 SYNTHETIC FLASH-FREEZE BEARING LUBRICANT** IS VIRTUALLY WATERPROOF, RATES AN O.K. LOAD OF 70 lbs, MIN., AND IS DESIGNED TO LUBRICATE BOTH FRICTION AND ANTI-FRICTION BEARINGS.

THE **ALITHICON 3456 BEARING LUBRICANT** IS DESIGNED TO LUBRICATE BEARINGS WITH SPEEDS OF, FROM 1 TO 7,000 R.P.M.'S.

A **USDA APPROVED, BROAD-SPECTRUM BIOCID**E IS FORMULATED INTO THE **ALITHICON 3456 SYNTHETIC FLASH-FREEZE BEARING LUBRICANT**, WHICH ELIMINATES ANY CONCERN OF PROMOTING THE GROWTH OF, OR EXTENDING THE CONTAMINATION OF THE FOOD PRODUCTS BEING MANUFACTURED OR PROCESSED.

THE **USDA APPROVED, BROAD-SPECTRUM BIOCID**E ELIMINATES ANY CONCERN OF TRANSFERRING, ESPECIALLY SALMONELLA IN POULTRY-PROCESSING PLANTS, UNDESIRABLE BACTERIA WHEN IT IS INTRODUCED TO THE BEARING LUBRICANT.

WHEN BACTERIA IS INTRODUCED TO THE **ALITHICON 3456 SYNTHETIC FLASH-FREEZE BEARING LUBRICANT**, AFTER A MAXIMUM OF 30 MINUTES, THE BACTERIA IS NEUTRALIZED.

IT IS NOT NECESSARY TO ACCEPT SHORT BEARING LIFE, INCREASED MAINTENANCE, AND DECREASED PRODUCTION TO COMPLY WITH THE FDA / USDA REGULATIONS WHEN THE **ALITHICON 3456 SYNTHETIC FLASH-FREEZE BEARING LUBRICANT** IS AVAILABLE.

USER BENEFITS:

- * A LONG-LIFE BEARING LUBRICANT
- * HAS A TEMPERATURE OPERATING RANGE OF FROM -50° F TO +550° F
- * VIRTUALLY WATERPROOF
- * REDUCES LUBRICANT CONSUMPTION OF UP TO 300%
- * EXTENDS BEARING LIFE OF UP TO 500%
- * MEETS WITH FDA / USDA H-1 REQUIREMENTS
- * RATES AN O.K. TIMKEN LOAD OF 70 lbs, MIN.

APPLICATIONS:

POULTRY, PORK, BEEF, AND VEGETABLE PROCESSING PLANTS WHICH HAVE QUICK-FREEZE DEPARTMENTS, SATELITE DISH SYSTEMS WHICH OPERATE IN EXTREMELY NORTHERN OR EXTREMELY SOUTHERN HEMISPHERES, AND TRUCKS OR CONSTRUCTION EQUIPMENT WHICH OPERATE IN EXTREMELY COLD ENVIRONMENTS.

CHECK THIS ALITHICON LUBRICANT FOR USDA APPROVAL, FOR USE IN FOOD PROCESSING PLANTS IN THE 2002 NSF WHITE BOOK (NSF INTERNATIONAL / NON-FOOD COMPOUNDS) AT www.nsf.org/usda

FOR TECHNICAL SPECIFICATIONS AND PACKAGING, SEE REVERSE SIDE

ALITHICON 3456 SYNTHETIC FLASH-FREEZE BEARING LUBRICANT (NLGI - 2)

TYPICAL SPECIFICATIONS:

	ASTM TEST	RESULTS
NLGI GRADE	*****	2
COLOR	*****	CREAM WHITE
TEXTURE	*****	SMOOTH
UN-WORKED PENETRATION	D-217	280
WORKED MECHANICAL STABILITY 10,000 STROKES 100,000 STROKES	D-217 D-217	274 271
ROLL STABILITY, % CHANGE	D-1831	< 1.4
DROPPING POINT, ° F	D-2265	590
OIL SEPARATION	D-1742	0.07
WHEEL BEARING LEAKAGE, gr	D-4290	0.15
TIMKEN O.K. LOAD, lbs, MIN.	D-2782	70
4 BALL E.P. TEST LOAD WEAR INDEX, kg WELD POINT, mm	D-2266	0.36 497
CORROSION RESISTANCE RUST TEST RATING SALT FOG, hrs TO FAILURE	D-1743 B-117	PASS > 450
OXIDATION RESISTANCE BEARING LIFE, hrs BOMB OXIDATION, PSI DROP AFTER 1,000 hrs	D-3527 D-942	340 4.1
WATER WASH-OUT, 79° C, % LOSS	D-1264	1.2
LOW TEMP TORQUE WHEEL BEARINGS TEST @ -40° C, Nm	D-4693	1.4
DESIRABLE OPERATING TEMPERATURE RANGE		-50° F TO 550° F

BASE FLUID INFORMATION

3456 LUBRICANT COMPATIBILITY

SPECIFICATION	RESULT	COMPATIBLE	INCOMPATIBLE	BORDERLINE
VISCOSITY @ 100° C, cst	9	BARIUM COMPLEX	CALCIUM COMPLEX	ALUMINUM COMPLEX
VISCOSITY @ 40° C, cst	96	CALCIUM STEARATE	BENTONE / CLAY	CALCIUM 12 HYDROXY
VISCOSITY @ 210° C, SUS	38	LITHIUM COMPLEX	POLYUREA	LITHIUM STEARATE
VISCOSITY @ 100° C, SUS	482	SILICA	SODIUM	LITHIUM-12 HYDROXY
FLASH POINT, ° F	570	CALCIUM SULFONATE COMPLEX		
POUR POINT, ° F	- 70			

AVAILABLE PACKAGING:

- * 30 / 14.5 oz TUBE CASE
- * 45 lb PLASTIC PAILS
- * BULK

- * 50 / 14.5 oz TUBE CASE
- * 120 lb KEGS

- * 35 lb PLASTIC PAILS
- * 420 lb DRUMS

ALITHICON LUBRICANTS CO., INC / P O BOX 5225 / ALBANY, GEORGIA 31706
 PHONE: 229-883-9515 / FAX: 229-883-9516
 E-MAIL: ALITHICON@ALITHICON.COM / WEBSITE: WWW.ALITHICON.COM