



**LUBRI-LAB**  
INC

## TECHNICAL DATA

# ALIMEX-1™

## *H1 food equipment grease*

### DESCRIPTION

Alimex-1 is distinguished by its exceptional mechanical stability, high dropping point and its performance under water washout. Alimex-1 is state-of-the-art high performance grease which has been developed from modified overbased calcium sulfonates complex. This technology, in many ways, outperforms other premium high temperature greases such as Lithium Complex, Aluminum Complex and Polyuria.

### APPLICATIONS

Alimex-1 is certified H-1 grease for incidental contact with food. It is specially designed to be used in all kind of food processing areas including mixing, baking, cooking, frying, stirring, packaging, cleansing, bottling and canning. **Public works:** Fire hydrant bearings.

### FEATURES AND BENEFITS

- Thermal and Mechanical Stability, particularly in the presence of heat and water.
- High dropping point, 318°C (608°F) ASTM D2265.
- Resists heavy loads, Timken OK load, ASTM D2509= 36 kg (80 lbs.).
- Excellent EP and Anti-wear properties.
- Resistance to Water washout, ASTM D1264, at 80°C (175°F) % loss=0.5.
- Resistant to most of acid and alkaline solutions.
- Does not dry.
- Resists oxidation: Formulated with white oil. Grease performance life is typically increased by 2 to 3 times than regular mineral oil based grease.
- Corrosion Resistance: Sulfonates are known and used due to their excellent rust prevention properties

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The above information is true and precise to the best of our knowledge. All recommendations or suggestions are made without warranty since the circumstances and conditions are beyond our control.

For further information contact: **Lubri-Lab Inc.:** [info@lubrilab.com](mailto:info@lubrilab.com)  
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**\*ISO 9001. & C-TPAT Certified and Validated**



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#### **PERFORMANCE**

	<b><u>Results</u></b>
N.L.G.I. GRADE	2
COLOR	cream
CONSISTENCY, ASTM D 217, 60 strokes, mm/10	280
DROPPING POINT, ASTM D 2265, (608°F) °C.	318
LOW TEMPERATURE TORQUE, ASTM D 1478, @ -18°C (0°F)	
Start	1404
60 minutes	247
LOW TEMPERATURE MOBILITY @ 150 psi, -18°C g/min US Steel Method	19.3

#### **RESISTANCE TO WATER**

WATER WASHOUT, ASTM D 1264, at 80°C (175°F), % lost.	0.5
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#### **RESISTANCE TO CORROSION**

RUST TEST, rating, ASTM D 1743.	Pass
SALT FOG CORROSION, ASTM B117, 1 mil d.f.t., hours	>300
COPPER CORROSION, rating ASTM D4048	1B

#### **LEAKAGE & SEPARATION CHARACTERISTICS**

OIL SEPARATION, ASTM D 1742, % loss	0.1
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#### RESISTANCE TO OXIDATION

BOMB OXIDATION, ASTM D 942, psi drop after 1000 hours. 6.0

#### EXTREME PRESSURE & WEAR PERFORMANCE

TIMKEN OK LOAD, ASTM D 2509, (80 Lbs.) 36Kg

4 BALL EP., ASTM D 2596, Load Wear Index, (136 Lbs) kg 62

Weld Point, (1100 Lbs) kg 500

4 BALL WEAR, ASTM D 2266, mm. 0.45

#### MECHANICAL STABILITY

MECHANICAL STABILITY, 10,000 strokes, % change ASTM-D217 -1.0

ROLL STABILITY, 50% water, % change in pen ASTM D1831 2.1

WHEEL BEARING LEAKAGE, ASTM D 4290, grams. 1.0

BEARING LIFE, ASTM D 3527, hours 180

**Special features:** Approved by Agriculture and Agri-Food Canada, Food Production and Inspection Branch for food equipment. For incidental contact with food.

**File number: 3100-3/L125**

Alimex-1 is certified H1 grease for incidental contact with food.

**File number: NSF: 128001**

**Availability:** Case 50 tubes x 14oz, 15.87 kg pail, 55 kg keg, 180 kg drum.

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