

ROTHEN FETT ALM Aluminum complex grease



Nonfood Compounds
Program Listed H1
Registration # 142040

DESCRIPTION

ROTHEN FETT ALM greases are designed to be employed on food processing machinery, and therefore they satisfy all the requirements for the "H1" classification, as approved by the NSF (made only with raw materials included in the CFR list, title 21, section 178.3570 of the FDA Food & Drug Administration, USA). Furthermore, they maintain very high technological characteristics of lubrication.

The **ROTHEN FETT ALM** are in fact composed by a complex aluminium soap ensuring a high dropping point and a consequent structural stability at high temperatures, and by a synthetic polyolefin fluid type providing good protection against wear and contained volatility, especially when compared to other mineral oils of equal viscosity. These greases react well against water, even in case of a relevant washout, and have an excellent resistance to oxidation.

ROTHEN FETT ALM are strongly additivated with the addition of antioxidant, ant-rust and EP agents, all naturally free of heavy metals and potentially harmful ingredients.

APPLICATIONS

ROTHEN FETT ALM's serie greases can be considered long-life, high performance, multipurpose greases for the lubrication of industrial machinery used in food processing for all temperature conditions (from refrigerating cells to furnaces and ovens). They are studied to be suitable in those situations where there is a possibility that the lubricant may come accidentally into contact with the manufactured products, or suitable for the packaging machinery of said products.

TYPICAL PHYSICAL-CHEMICAL CHARACTERISTICS (*)

Colore : Opaque White
Aspetto : Creamy, homogenous, slightly gluey

| FEATURE | UNIT OF MEASURE | TEST METHOD | OUTCOME 00 | OUTCOME 0 | OUTCOME 1 | OUTCOME 2 | OUTCOME 3 |
|---------------------------------------|-----------------|-------------|------------|-----------|-----------|-----------|-----------|
| NLGI Classification | --- | ASTM D217 | 00 | 0 | 1 | 2 | 3 |
| Dripping point | °C | ASTM D566 | >240 | >240 | >260 | >260 | >260 |
| Manipulated Penetration 60 c. at 25°C | 1/10mm | ASTM D217 | 400 - 430 | 355 - 385 | 310 - 340 | 265 - 295 | 220 - 250 |
| TIMKEN Test | Lbs | ASTM D2509 | --- | --- | >40 | >40 | >40 |

(*): The values are based on typical production, and may consequently vary.

OTHER REFERENCE VALUES (*)

| | | |
|--------------------------------------|--------------------|-----------------|
| Corrosion preventive properties test | ASTM D1743 | PASS |
| Oxidation Stability | Norma-Hoffman bomb | 100h |
| Loss of pressure | ASTM D942 | bar 0,25 / 1,35 |
| Copper corrosion 24h/120°C | ASTM D4048 | 1a |

BASE OIL'S FEATURES (*)

| PROPERTY | UNIT OF MEASURE | METHOD | OUTCOME | OUTCOME | OUTCOME |
|-------------------------|-------------------|------------|--------------|---------|---------|
| Viscosity at 40°C (ISO) | cSt | ASTM D445 | 65 | 55 | 75 |
| Viscosity at 100°C | cSt | ASTM D445 | 9,6 | 9,4 | 10,2 |
| Specific Weight | g/cm ³ | ASTM D1298 | 0,840 | 0,830 | 0,850 |
| Inflammability point | °C | ASTM D92 | 264 | 250 | --- |
| Viscosity Index | --- | ASMT D2270 | 133 | 125 | --- |
| Sliding Point | °C | ASTM D97 | -54 | --- | -50 |