

# Foodmax Grease ALU M 1 Natural

Product code: 263703601

## Food grease based on aluminium complex thickener without titanium dioxide E171

Foodmax Grease ALU M Natural is a range of aluminium complex greases designed for the lubrication of almost any application which requires a food grade lubricant. Foodmax Grease ALU M Natural series are formulated with complex soap, white medicinal oil, firm additive package without titanium dioxide (TiO<sub>2</sub>). They are provided with excellent lubricating properties and a high water resistance, perfect when a combination of water presence and high loads is faced.

Foodmax Grease ALU M Natural series can be used bearings operated within a temperature range of -20 to 150 °C and thanks to their superior resistance to water they are very well suitable for the lubrication of chains or conveyor chains operated in very wet conditions. This combination is often seen in packing operations and slaughter houses. Both ALU M Natural 1 and 2 can be used in water valves or taps providing long life lubrication of the most critical parts.

Foodmax Grease ALU Natural M-0 & M-1 are more suitable for centralized systems because of their excellent pumpability.

## Back to Natural

With our TiO<sub>2</sub> (E171) free product we go back to natural. The Foodmax Grease ALU M Natural represents our commitment to providing safer products without compromising on performance. TiO<sub>2</sub> is often used to give the grease a white colour, it will not improve the performance of the grease. Recent research has raised concerns about the potential hazards associated with titanium dioxide. At Matrix, we believe it is important to stay ahead of these concerns and provide safer alternative "back to natural".



## Applications

- General lubrication and bearings in the food industry
- Slide ways and chains
- Water valves and tap lubrication

## Benefits & Advantages

- Food grade greases
- High resistance to water and loads
- Suitable for medium loaded high-speed bearings (VF=5x10<sup>5</sup>)
- Adhesive
- Titanium dioxide (TiO<sub>2</sub>) free

## Performance level

- ISO 6743/9 grease specification, L-XBCHB2 type
- DIN 51825 grease specification, KP2K-20 type

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**Typical Performance Data**


Typical	Test Method	Value
Colour	-	Beige/White
Thickener	-	Aluminium complex
Density @ 20 °C, gr/ml	-	0.862
NLGI consistency	DIN 51818	1
Base oil viscosity @ 40 °C, cSt	-	220
Worked penetration 60W, x 0,1 mm	ASTM D217	310-340
Drop point, °C	ASTM D566	>250
Flow pressure @ -20 °C, mbar	DIN 5180	1200
4-ball wear test		
• Welding load, min, kg	IP-239	315
• Scar dia 1h/40 kg, mm		0.70
EMCOR corrosion test	DIN 51802	1
Copper corrosion @ 100 °C	ASTM D4048	1b
Oxidation stability @ 100 °C, bar	ASTM D942	0.40
Evaporation loss @ 100 °C, %	ASTM D972	0.60
Water resistance, 90 °C	DIN 51807	0
Water washout @ 80 °C, max	ASTM D1264	8
Oil separation @ 40 °C, max	DIN 51817	10
Dynamic viscosity @ 25 °C, mPas	HAAKE	2800+800
Operating temperatures	-	
• Continuous, °C		-20 – 130
• Peak, °C		150
NSF registration	-	148586
Kosher approved	-	Yes

All performance data on this Technical Data Sheet are indicative only and can vary during production.