



## Foodmax Gear PAG 680

### Synthetic gear and chain oil for the food industry

#### Description

Foodmax Gear PAG is a range of high-performance long life synthetic food grade gear oils particularly suited for the lubrication of drive chains, conveyor chains, gearboxes, and reduction units. The fluids are provided with excellent anti wear properties, high stability to oxidation and a low pour point. Will resist mechanic shearing, very stable to ageing and present a very good viscosity - temperature behaviour. Foodmax Gear PAG fluids are adhesive and will therefore prevent from wear during start-up operation.

Foodmax Gear PAG is NSF H1 registered for incidental food contact.

#### Benefits

- Extremely good oxidation stability extending lubricant life
- Excellent water-resistant properties, demulsibility ensures total separation of water from oil
- Adhesive
- Penetrates to chain links and pins reducing wear and extending chain life
- Non-dripping
- Protects from corrosion even in presence of alkali materials
- Extremely wide temperature range

- Excellent resistance to high loads

#### Applications

Foodmax Gear PAG is intended for the lubrication of gearboxes, endless screws, circulating systems, bearings, and conveyor chains (up to 240 °C). Foodmax Gear PAG suits very well in very wet environments as it remains unaffected by water.

#### Cautions

The product is neither miscible with mineral base oils nor with different nature synthetic oils. So it is advisable to proceed to a good cleaning (flushing) of the mechanism to be lubricated prior to use the oil.

#### Performance level

- FZG gear test (DIN 51354) A/8.3/90: > 12
- FAG FE 8 roller bearing test weight loss roller (mg): 12
- Vickers vane pump test V 104-c-10 (DIN 51389 part 2): 2
- Brugger-Weingarten max load (N/mm<sup>2</sup>): 47
- Busak & Shamban micro scratching test: pass
- DIN 51517-3
- David Brown Type G

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

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## Typical performance data

	Unit	Test Method	680
Colour		Visual	Colorless
Density @ 20 °C	g/cm <sup>3</sup>	ASTM D1298	1.072
Viscosity @ 40 °C	mm <sup>2</sup> /s	ASTM D445	680
Viscosity @ 100 °C	mm <sup>2</sup> /s	ASTM D445	122.2
Viscosity Index		ASTM D2270	272
Flash point	°C	ASTM D92	287
Pour point	°C	ASTM D97	-33
TAN (max)	mgKOH/g	ISO 6618	0.2
Copper Corrosion	-	ASTM D130	
4-ball Wear, 1200 rpm, 75°C, 40kg	-	ASTM D4172	0.3
4-ball Weld load, kg	Kg	ASTM D-2783	260
Rust Test	-	-	Pass
FZG load stage	-	DIN 51354	> 12
NSF approval	H1	-	159105
Kosher approval	-	-	YES
Halal approval	-	-	YES

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