



Foodmax Gear PAG

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/mm²): 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	150	220	320	460	680	1000
Colour		Visual	Colorless					
Density @ 20 °C	g/cm ³	ASTM D1298	0.998	1.0	1.0	1.0	1.072	1.089
Viscosity @ 40 °C	mm ² /s	ASTM D445	162	220	320	460	680	1000
Viscosity @ 100 °C	mm ² /s	ASTM D445	27	36.5	50	122	122.2	163
Viscosity Index		ASTM D2270	202	210	220	240	272	284
Flash point	°C	ASTM D92	278	240	240	240	287	296
Pour point	°C	ASTM D97	-39	-40	-40	-30	-33	-30
TAN (max)	mgKOH/g	ISO 6618	1.6	1.2	1.2	1.2	0.2	0.2
Copper Corrosion	-	ASTM D130	1a					
4-ball Wear, 1200 rpm, 75°C, 40kg	-	ASTM D4172	0.35	0.3	0.3	0.3	0.3	0.3
4-ball Weld load, kg	Kg	ASTM D-2783	160	200	240	260	260	260
Rust Test	-	-		Pass	Pass	Pass	Pass	Pass
FZG load stage	-	DIN 51354		> 12	> 12	> 12	> 12	> 12
NSF approval	H1	-	-	141664	151742	151743	159105	-
Kosher approval	-	-	-	YES	-	-	-	-
Halal approval	-	-	YES	YES	YES	YES	YES	YES

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