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 resists 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 InS and 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

Typical performance data

	Test method	150	220	320	460	680	1000
Colour	Visual	Colorless					
Density @ 20 °C, kg/dm3	ASTM D1298	1,057	1.057	1.062	1.067	1.072	1.089
Viscosity @ 40 °C, cSt	ASTM D445	150	220	320	460	680	1000
Viscosity @ 100 °C, cSt	ASTM D445	25	41.9	60.6	83	122.2	163
Viscosity Index	ASTM D2270	232	242	252	262	272	284
Flash point, °C	ASTM D92	>280	>280	>280	>280	>280	>290
Pour point, °C, max	ASTM D97	<-45	<-40	<-35	<-35	<-30	<-30
TAN, mgKOH/g, max	ISO 6618	0.2	0.2	0.2	0.2	0.2	0.2
Rust test		Pass	Pass	Pass	Pass	Pass	Pass
FZG load stage	DIN 51354	>12	>12	>12	>12	>12	>12
FZG, A/16.6/90	DIN 14635-1	≥12	≥12	≥12	≥12	≥12	≥12
FZG, A/8.3/90	DIN 14635-1	≥14	≥14	≥14	≥14	≥14	≥14
FAG FE8, D 7.5/80-8, rolling element, gr	DIN 51819-3	12	12	12	12	12	12
FAG FE8, D 7.5/80-8, wear of cage, gr	DIN 51819-3	28	28	28	28	28	28
NSF approval							
InS approval							
Kosher approval							
Halal approval							