

MAXIGRAS 591 NON-TOXIC LUBRICANT - H1

Page 1 of 2

DESCRIPTION:

Non-toxic and semi-synthetic lubricant, with a stringy, transparent, semi-fluid gel appearance, specially formulated for the lubrication of gears, chains, guides and other elements in the food and pharmaceutical industries where there may be problems with dripping if traditional lubricants are used. Meets the requirements of **standard H1** for lubricants in accidental contact with food intended for human consumption.

ADVANTAGES:

- ✓ Its *thixotropic* nature keeps its viscosity at rest and increases its fluidity when a shear force is applied, depending on the operating system in the lubricated element. After a rest period MAXIGRAS 591 recovers its viscosity and initial properties, preventing leaks in gaskets and seals and dripping in chains, guides and other elements prone to this problem.
- ✓ Excellent performance under extreme conditions and shock loads. High EP capacity.
- ✓ Thanks to its adherence and covering capacity it enables proper lubrication of the gears and prevents drainage and leakage losses in downtimes, thus increasing lubrication intervals and reducing maintenance costs.
- ✓ High protection against corrosion, wear and rust, extending the life of the lubricant and the mechanisms in which it operates.
- ✓ Easy pumping when using automatic lubrication systems.
- ✓ Excellent adhesion, high resistance to dripping/draining.
- ✓ The lubricant film remains adhered during downtimes, preventing the entrance of abrasive particles into gears and providing effective protection against corrosion of the metal surface.
- ✓ High penetration on the inner surfaces of chain links.
- ✓ Reduction of noise and vibration during operation of gears and chains.
- ✓ Compatible with the elastomers, gaskets, seals and paints used in machinery for food manufacturing and packaging.
- ✓ Operating temperature range: -20°C (-4°F) to +100 °C (+212 °F).

APPLICATIONS:

- ✓ Cylindrical gears, bevel gears, augers, planetary screws, etc. in the food and beverage processing, packaging and pharmaceutical industries.
- ✓ Bushings, bearings, vertical and horizontal guides, where there is a risk of accidental contact with food.
- ✓ Lubrication of food conveyor chains.
- ✓ Food packing machinery.
- ✓ Machinery where dripping problems may exist with traditional lubricants, such as overhead cranes, conveyor gears, power transmission and gear motors in the food industry.

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Page 2 of 2

APPROVALS:

Category Code H1
NSF Registration N° 151615
HALAL License No.: IH-986/2.4/M/60
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SPECIFICATIONS:

DIN 51517 Part 3 CLP	DAVID BROWN S1.53.101
US STEEL 224	ISO 6743/6- CKB-CKC
AGMA 9005/E02	API GL-4
DIN 51502: GPHCG-20 / OGHCG-20	



Heavy Loads

TECHNICAL DATA:

PHYSICOCHEMICAL CHARACTERISTICS	STANDARD	VALUE
Thickener (Nature)	-	Aluminium
Color	Visual	Light yellowish
Appearance	Visual	Fluid gel
Brookfield viscosity at 25 °C, Typical (cP)	ASTM D-2983	7000
Pour point (°C)	ASTM D-97	-20
Flash point (°C)	ASTM D-92	250
4-ball Wear Test, (40 Kg/1200rpm/75°C/1h). Scar (mm)	ASTM D-2266	0.40
4-balls EP Test, welding (kg)	ASTM D-2596	250
Copper corrosion, 3h, 100°C	ASTM D-130	1b

HOW TO USE:

MAXIGRAS 591 grease can be pumped through automated systems, after consulting the manufacturer.
MAXIGRAS 591 is compatible with any grease with the same base (thickener and oil). If in doubt ask our technical department.

PRESENTATION:

20L and 200L drums.