



FM Synthetic Gear Oil

ISO 68, 100, 150, 220, 320, 460 & 680

Previously known as SFG Gear Oil

Description

FoodMaster (FM) Synthetic Gear Oils are premium-performance lubricants made from Polyalphaolefin (PAO) base stocks and proprietary additive blends. The FoodMaster range has been NSF H-1 registered and is specifically recommended where incidental food contact may occur.

Applications

FM Synthetic Gear Oils are recommended for gear sets, bearings, circulating oil systems and chain applications in food processing machinery. The heavier viscosity grade provides excellent service in worm gear units.

Certifications

Kosher Australia

- ISO 68 K-ID: JVQ-WLLS
- ISO 100 K-ID: RGM-HBZW
- ISO 150 K-ID: HCR-TDQQ
- ISO 220 K-ID: GFL-XVNB
- ISO 320 K-ID: JKT-QPFX
- ISO 460 K-ID: LDF-LZSM
- ISO 680 K-ID: KGD-FDZD

SICHMA Halal

➤ Certificate number:
00562305ASL1/1K

NSF H-1

- ISO 68 Reg #: 145936
- ISO 100 Reg #: 145937
- ISO 150 Reg #: 145938
- ISO 220 Reg #: 132398
- ISO 320 Reg #: 132397
- ISO 460 Reg #: 139919
- ISO 680 Reg #: 139920

Features & Benefits

- FM Synthetic Gear all exhibit excellent low-traction frictional performance, reducing energy consumption in your plant.
- Reduced foam formation thanks to FoodMaster Synthetic Gear oils' exceptional antifoam and air release properties. This greatly reduces the risk of gear oil spills within the plant, and protects gear surfaces from the effects of air entrainment.
- We know that cleaning crews can sometimes get a bit over-zealous, for that reason these oils have been designed to readily separate from water. The proprietary additive package has also been designed to prevent corrosion of metal surfaces.
- FoodMaster Synthetic Gear Oils possess high resistance to oxidation thanks to their combination of fully synthetic base oils and advanced antioxidant additives. When kept free from contaminants, you can expect outstanding oil life.

Technical Data Sheet

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Specifications

Properties	Method	Results – ISO Grades						
		68	100	150	220	320	460	680
Specific Gravity @20°C	ASTM D792	0.831	0.854	0.858	0.861	0.864	0.865	0.869
Viscosity @40°C (cSt)	ASTM D445	70.66	97.54	157.4	226.6	338.3	466.1	667.2
Viscosity @100°C (cSt)	ASTM D445	13.39	12.74	18.28	23.91	32.77	42.79	52.19
Viscosity Index	ASTM D2270	133.1	126.3	129.6	131.6	136.8	143.1	135.4
Flash Point (°C)	ASTM D92	TBA	TBA	TBA	224	230	235	240
Pour Point (°C)	ASTM D97	-35	-35	-35	-35	-35	-35	-35

Further Specifications of an ISO 220 FM Synthetic Gear Oil

Properties	Method	Results
Four Ball Test 1hr/150 N 1hr/300 N	DIN 51530 Part 3	Scar Diameter 0.29mm 0.32mm
FZG Test Damage Load Stage	DIN 51354 Part 2	>12
Corrosion Test (Steel)	ASTM D665 A+B	No Corrosion
Copper Corrosion 3hr/100C 24hr/100C	ASTM D130	1a 1a-1b

Master Item# 2435, 2437, 2439, 2441, 2445, 2449, 2453
Pack Size Availability: 20L, 200L, 1000L = IBC

Last Updated: 14th June 2023

