



TECHNICAL DATA

8/2023 Rev.3

FOODSAFE FMO SERIES

A/W HYDRAULIC & FOOD MACHINERY OILS

FOODSAFE FMO SERIES are formulated with pure white oil base stocks and are fortified with additives to provide protection against corrosion, wear and oxidation. These products are designed to operate under typical conditions encountered in food processing, pharmaceutical and personal care facilities.

Applications include: Hydraulic systems, pneumatic lubricators, light duty air compressors, enclosed gearboxes, chains, bearings, vacuum pumps, blowers, slideways, Angelus Seamers (Manzel Lubricators) and guide post.

FOODSAFE FMO SERIES level of performance allows for consolidation of inventories and they can be used in industrial applications where non-food grade lubricants are currently used, further allowing for consolidation of your lubricant inventories and reducing the chance of misapplication and possible contamination of your food processing systems.

NSF H1 – Approved by NSF for use in food processing facilities as a lubricant or anti-rust agent on equipment in which there may be incidental contact involving the lubricated part and the edible product.

TYPICAL PROPERTIES:

Property/Product Name FOODSAFE	Method	Unit	FMO 22	FMO 32	FMO 46	FMO 68	FMO 100
ISO Viscosity Grade			22	32	46	68	100
Viscosity @ 40°C	ASTM D445	cSt	20.8	32	46	68	100
Viscosity @ 100°C	ASTM D445	cSt	4.2	5.63	6.95	9.12	12.16
Viscosity Index	ASTM D2270	n/a	106	115	108	110	112
API Gravity	ASTM D1298	n/a		32.6	32.2	31.1	30.6
Flash Point	ASTM D92	°C/°F	210/410	215/420	232/450	260/500	232/450
Pour Point	ASTM D97	°C/°F	-45/-49	-26/-17	-25/-15	-25/-15	-25/-15
Acid Number	ASTM D664	mg KOH/gm	<0.4	<0.4	<0.4	<0.4	<0.4
Corrosiveness to Copper	ASTM D130	n/a	1a	1a	1a	1a	1a
Oxidation Stability	ASTM D943	Hours to 2 NN	8,000+	8,000+	8,000+	8,000+	8,000+
Steel Corrosion	ASTM D665	Pass/Fail	Pass	Pass	Pass	Pass	Pass
4 Ball Wear 40kg/1200RPM 1HR/75°C	ASTM D4172	Scar Diameter, mm		0.46	0.46	0.44	0.44
NSF Registration #				147436	147437	147438	147439

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Member of the American Baking Society

REGULATORY:

These products are formulated to meet 21 CFR 178.3570, requirements for lubricants with the possibility of incidental food contact and are registered by NSF as H-1 (formerly USDA H-1).

PACKAGING:

5-Gallon Pail, 55-Gallon Drum

STORAGE:

The shelf life of these products is 24 months in their original sealed package. These products should be stored in a cool and dry environment.

EXPERIENCE AND SUPPORT:

For information on the safe handling and use of this product, refer to the Material Safety Data Sheet. For more information and availability, call (630) 513-6350.