

JAX FLOW-GUARD SYNTHETIC FLUIDS

NSF H1 100% PAO BASED SYNTHETIC LUBRICATING FLUIDS



FOOD GRADE

PRODUCT DESCRIPTION

JAX Flow-Guard Synthetic Fluids are compounded with 100% PAO base fluids and the best available additive technologies to provide superior performance. In addition to their outstanding hydraulic performance, these products satisfy many other lubrication requirements in food processing environments.

They contain an effective combination of antiwear agents, rust inhibitors, and polymeric viscosity index modifiers that provide outstanding long term wear advantages over other food grade hydraulic oils, while their robust antioxidant chemistry ensures deposit-free operation. By replacing your lower performing food grade hydraulic oil with JAX Flow-Guard Synthetic Fluids, you will extend the life and lubrication intervals of your costly equipment. JAX Flow-Guard Synthetic Fluids meet the requirements of 21 CFR 178.3570 (lubricants with incidental food contact).

PRODUCT BENEFITS

- **Excellent High and Low Temperature Performance**—Can be used at extremely low ambient temperatures, yet maintain sufficient body to perform at high temperatures. These fluids pass demanding industry-standard vane pump hydraulic oil tests at a level previously relegated to high performance non food grade hydraulic oils. This can ease concerns when converting your hydraulic systems to NSF H1 food grade integrity.
- **Reduces Wear**—Specifically formulated to provide enhanced wear protection over conventional rust and oxidation hydraulic oils, dramatically increasing pump life.
- **Longer Drain Intervals**—Outperform conventional fluids in thermal and oxidative stability, as demonstrated by the Rotary Pressure Vessel Oxidation Test (ASTM D 2272). This enhanced performance translates into longer drain intervals and trouble-free operation.
- **Water Separation and Air Entrainment**—Readily separate from water and air, eliminating emulsions that inhibit the oil's ability to lubricate, and minimizing hydraulic "fade" to ensure maximum efficiency. Rapid water separation ensures easy drainage from the sump, reducing the potential for rust and corrosion to the system components.
- **Micronox® Technology**—A groundbreaking advance in food grade technology with exceptional performance in preserving and protecting food grade lubricants from microbial contamination.
- **NSF H1 Registered**
- **Kosher and Parve Certified**

APPLICATIONS

- Industrial hydraulic, gear drive and other lubricated machinery
- Hydraulic systems
- Mist or spray chain lubricators
- Cam rollers
- Slide valves
- Drip lubrication systems
- Air compressors
- Oil bearings
- Gearboxes

COMPATIBILITY

JAX Flow-Guard Synthetic Series is compatible with mineral oils and most synthetic oils*. For optimum performance, it is recommended that the system be thoroughly drained and, if warranted, cleaned prior to installation.

**JAX Flow-Guard Synthetic series, as well as other synthetic or mineral-based oils, are not compatible with polyglycol-type gear lubricants. Thorough flushing prior to changeover is required.*



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TYPICAL PROPERTIES	FLOW-GUARD ISO 15	FLOW-GUARD ISO 22	FLOW-GUARD ISO 32	FLOW-GUARD ISO 46	FLOW-GUARD ISO 68	FLOW-GUARD ISO 100	ASTM METHOD	ISO METHOD
Viscosity @ 40°C, cSt	14.8	22.7	32.4	46.9	68.3	100.0	ASTM D 445	ISO 3104
Viscosity @ 100°C, cSt	3.5	4.6	5.9	7.6	9.8	13.0	ASTM D 445	ISO 3104
Viscosity Index	111	117	129	128	125	127	ASTM D 2270	ISO 2909
ISO Viscosity Grade	15	22	32	46	68	100	ASTM D 2422	ISO 3448
AGMA Synthetic Gear Classification			0S	1S	2S	3S		
Pour Point, °F (°C)	-89 (-67)	-87 (-66)	-65 (-54)	-72 (-58)	-70 (-57)	-61 (-52)	ASTM D 97	ISO 3016
Flash Point °F (°C)	399 (204)	442 (228)	453 (234)	489 (254)	478 (248)	464 (240)	ASTM D 92	ISO 2592
Fire Point °F (°C)	428 (220)	500 (260)	500 (260)	536 (280)	525 (274)	543 (284)	ASTM D 92	ISO 2592
TOST Life, Hours	10,000+	10,000+	10,000+	10,000+	10,000+	10,000+		ISO 7624
Color	Water white	Water white	Water white	Water white	Water white	Water white		
Foaming Characteristics							ASTM D 892	ISO 6247
Sequence I	4/0	4/0	4/0	8/0	10/0	10/0		
Sequence II	2/0	2/0	4/0	6/0	4/0	6/0		
Sequence III	2/0	2/0	6/0	6/0	6/0	6/0		
Rust Test							ASTM D 665	ISO 7120
Method A-Distilled Water	Pass	Pass	Pass	Pass	Pass	Pass		
Method B-Synthetic Sea Water	Pass	Pass	Pass	Pass	Pass	Pass		
Copper Strip Corrosion	1a	1a	1a	1a	1a	1a	ASTM D 130	ISO 2160
Four-Ball Wear, mm	0.62	0.48	0.45	0.45	0.45	0.40	ASTM D 4172	
Water Separability, oil-water-cuff (min)	40-40-0 (15)	40-40-0 (15)	40-40-0 (15)	40-40-0 (15)	40-40-0 (15)	40-40-0 (15)	ASTM D 1401	ISO 6614
FZG Rating, Fail Load Stage	--	12	12+	12+	12+	12+		DIN 51354
NSF Reg. No./Category Code		129240 / H1	129249 / H1	129248 / H1	129241 / H1	129242 / H1		

JAX products undergo continual improvement in formulation and manufacture. The values indicated in this PDS are typical production values at the time of this writing. JAX reserves the right to alter and update product data and typical values at any time without notice. It is the responsibility of the installer and/or purchaser to determine if these specifications are adequate and proper for the intended application. SDS information may be found at www.jax.com or by contacting JAX INC.

CONTAINER SIZE	ISO 15	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100
275 Gallon Tote	FGS015-275	FGS022-275	FGS032-275	FGS046-275	FGS068-275	FGS100-275
55 Gallon Drum	FGS015-055	FGS022-055	FGS032-055	FGS046-055	FGS068-055	FGS100-055
16 Gallon Keg	FGS015-016	FGS022-016	FGS032-016	FGS046-016	FGS068-016	FGS100-016
5 Gallon Pail	FGS015-005	FGS022-005	FGS032-005	FGS046-005	FGS068-005	FGS100-005
Gallon (4/cs)	FGS015-004	FGS022-004	FGS032-004	FGS046-004	FGS068-004	FGS100-004



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