JAX ANGEL-GUARD® SEAMER FLUIDS

NSF H1 100% SYNTHETIC CAN SEAMER LUBRICATING OILS

FOOD GRADE

PRODUCT DESCRIPTION

High speed beverage can seamers manufactured by Angelus Sanitary Can Machine Company utilize an oil lubricated system for protection of internal components. The majority of newer, higher speed models, typically 12, 14 or 18 station units, utilize a sophisticated recirculating system involving an advanced coalescing filter system. Unlike older models which utilized the lubricating fluid in a one pass mode, these require a high performance fluid that will provide enhanced wear protection and long fluid life. In addition, the fluids must be NSF H1 food grade and be able to handle various packaged products from beer to soda water to fruit juices to mineral waters. JAX Angel-Guard Seamer Fluids meet the requirements of 21 CFR 178.3570 (lubricants with incidental food contact).

PRODUCT BENEFITS

- **Superior Wear and Corrosion Protection**—JAX Angel-Guard seamer fluids are fully synthetic, food grade, anti-wear fluids. They are compounded to provide the ultimate in wear and corrosion protection.
- **Optimum Water and Contamination Separation**—JAX Angel-Guard Fluids 100D and 150D are demulsifying lubricants intended for can closers processing low fructose or corn syrup products where minimal migration of processed product to the lubricating fluid is present. They provide optimum water and contamination separation characteristics for easier filtration and lower filter pressures. Making these fluids more compatible with the filter system and easing the water separation characteristics ensure the oil system of optimum wear protection and filtration performance. This results in enhanced seaming equipment performance and longevity.
- **An Emulsifying, Dispersant Lubricant**—JAX Angel-Guard Fluids E and E-LT are intended for can closers processing products containing higher levels of fructose or corn syrup sweeteners where migration of the product to the lubricating fluid is an ongoing issue. In these cases, oils without emulsifying characteristics do not have the ability to dissolve and carry away sugars that may plate out on lubricated parts. Emulsification is important in terms of allowing machines in this environment to run at optimum efficiency without concerns regarding moderate product migration to the oil system.
- **Contains Micronox® Technology**—A groundbreaking advance in food grade technology developed with exceptional performance in preserving and protecting food grade lubricants from microbial contamination.
- **NSF H1 Registered**
- **Kosher and Parve Certified**

APPLICATIONS

- High speed beverage can seamers

COMPATIBILITY

JAX Angel-Guard seamer fluids are compatible with mineral oils, synthetic lubricants*, and seals. For optimum performance, it is recommended that systems be thoroughly drained and, if warranted, cleaned prior to installation.

*JAX Angel-Guard seamer fluids, as well as other mineral based lubricants, are not compatible with most poly-glycol type lubricants. Thorough flushing prior to changeover is required.

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FG H1 FOOD GRADE

JAX ANGEL-GUARD® SEAMER FLUIDS

TYPICAL PROPERTIES	ANGEL-GUARD FLUID 100D	ANGEL-GUARD FLUID 150D	ANGEL-GUARD FLUID E-LT	ANGEL-GUARD FLUID E	METHOD
Viscosity @ 40°C, cSt	97.0	135.5	97.0	135.5	ASTM D 445
Viscosity @ 100°C, cSt	13.3	17.5	13.3	17.5	ASTM D 445
Viscosity Index	136	142	136	142	ASTM D 2270
ISO Viscosity Grade (approx.)	100	150	100	150	ASTM D 2422
SAE Viscosity Grade	30	40	30	40	SAE J300
Pounds Per Gallon	7.2	7.2	7.2	7.2	ASTM D 1298
Pour Point, °F (°C)	-42 (-41)	-42 (-41)	-42 (-41)	-42 (-41)	ASTM D 97
Flash Point, °F (°C)	464 (240)	540 (282)	464 (240)	540 (282)	ASTM D 92
Fire Point, °F (°C)	543 (284)	574 (301)	543 (284)	574 (301)	ASTM D 92
Copper Strip Corrosion	1b	1b	1b	1b	ASTM D 1298
Rotating Bomb Oxidation Test @ 150°C, min.	750-1000	750-1000	750	750	ASTM D 2272
Emulsion Characteristics @54°C Oil-Water-Cuff (Minutes)	40-38-2 (10)	40-38-2 (10)	N/A	N/A	ASTM D 1401
Foaming Characteristics, Initial/Final Volume (Time)					ASTM D 892
Sequence I	0/0 (8 sec.)	0/0 (8 sec.)	0/0 (15 sec.)	0/0 (15 sec.)	
Sequence II	8/0 (4 sec.)	8/0 (4 sec.)	12/0 (10 sec.)	12/0 (10 sec.)	
Sequence III	0/0 (8 sec.)	0/0 (8 sec.)	0/0 (20 sec.)	0/0 (20 sec.)	
Rust Test					ASTM D 665
Method A - Distilled Water	Pass	Pass	Pass	Pass	
Method B - Synthetic Sea Water	Pass	Pass	Pass	Pass	
Noack Volatility, % Weight Loss	6.2	6.2	6.2	6.2	DIN 51581
Shell Four-Ball Wear, Scar Diameter, mm	0.43	0.43	0.44	0.44	ASTM D 4172
NSF Registration No. / Category Code		133479 / H1		133480 / 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	ANGEL-GUARD FLUID 100D	ANGEL-GUARD FLUID 150D	ANGEL-GUARD FLUID E-LT	ANGEL-GUARD FLUID E
2000 Pound Tote	ANGDL-276	ANGDD-276	ANGEL-276	ANGEM-276
400 Pound Drum	ANGDL-400	ANGDD-400	ANGEL-400	ANGEM-400
120 Pound Keg	ANGDL-120	ANGDD-120	ANGEL-120	ANGEM-120
35 Pound Pail	ANGDL-035	ANGDD-035	ANGEL-035	ANGEM-035
Gallon (4/cs)	ANGDL-004	ANGDD-004	ANGEL-004	ANGEM-004

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ISO 9001 • ISO 21469 Certified Quality Management System

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