

# JAX MAGNA-PLATE® 78

NSF H1 FOOD MACHINERY OIL



**FOOD GRADE**

## PRODUCT DESCRIPTION

JAX Magna-Plate 78 products are USP white mineral oil based fluids that provide exceptional wear and corrosion protection in food and beverage industry machinery applications. They are NSF H1 registered for incidental contact.

JAX Magna-Plate 78 is a demulsifying lubricant intended for can closers processing low fructose or corn syrup products where minimal migration of processed product to the lubricating fluid is present. It provides optimum water and contamination separation.

JAX Magna-Plate 78E is an emulsifying/dispersant lubricant intended for can closers processing products containing higher levels of fructose or corn syrup sweeteners. 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 and cause component wear.

## PRODUCT BENEFITS

- **Food Grade Extreme Pressure (EP) Additives and Synthetic Polymer**—Ensure optimum antiwear and adhesion characteristics
- **Cold Temperature Viscosity**—Reduces dripping from coldroom overhead chains or conveyors
- **High Temperature EP and Polymer Additives**—Provide constant film of protection on high heat or high speed bearings
- **Superior Corrosion Protection**—Ideal for laying up equipment between canning seasons and for general oiling throughout the plant
- **Corrosion and Rust Protection**
- **Excellent Filterability Characteristics**
- **Excellent High Temperature Oxidation Stability**
- **Greatly Extends Component Life and Reduces Downtime**
- **Contains Micronox®**— 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**
- **JAX Magna-Plate 78 is available in Aerosol and Trigger Spray**

## APPLICATIONS

- **Chain and cable lubrication**—The superior lubricating film is especially effective at protecting rollers, cams, slides, cables, wire ropes and chains (e.g. silent, monorail, main and final chains, particularly where metal flaking is a problem) at slow to medium speeds.
- **Provides the highest level of performance** in applications from can seamers to overhead chains, from gearboxes to cutter heads.
- **Gear and bearing lubrication**—Highly effective in plain, sleeve, ball and roller bearing applications in slow- to medium speed operating environments (e.g. corn cutters).
- **Can seaming lubrication**—Used extensively in high speed can seamers that require enhanced wear protection and long component life.

## COMPATIBILITY

JAX Magna-Plate 78 is 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 Magna-Plate 78 fluids, as well as other mineral-based lubricants, are not compatible with most poly glycol type lubricants. Thorough flushing prior to changeover is required.



# JAX MAGNA-PLATE® 78

## BULK PRODUCT

TYPICAL PROPERTIES	MAGNA-PLATE 78	MAGNA-PLATE 78E	METHOD
Viscosity @ 40°C, cSt	150.9	150.9	ASTM D 445
Viscosity @ 100°C, cSt	15.2	15.2	ASTM D 445
Viscosity Index	101	101	ASTM D 2270
SAE Viscosity Grade	40	40	SAE J300
Pour Point, °F (°C)	0 (-17.8)	0 (-17.8)	ASTM D 97
Flash Point, °F (°C)	504 (262)	507 (264)	ASTM D 92
Fire Point, °F (°C)	561 (294)	572 (300)	ASTM D 92
Density, lbs/gal	7.2	7.2	ASTM D 1298
Rotating Bomb Oxidation Test @ 150°C, min.	400+	400+	ASTM D 2272
Demulsibility Test @ 54°C, Oil-Water-Cuff (min.)	40-38-2 (10)	Not applicable	ASTM D 1401
Foaming Characteristics, Initial/Final Volume (Time)			ASTM D 892
Sequence I	0/0 (15 sec.)	0/0 (15 sec.)	
Sequence II	8/0 (4 sec.)	12/0 (10 sec.)	
Sequence III	0/0 (8 sec.)	0/0 (20 sec.)	
Rust Test			ASTM D 665
Method A - Distilled Water	Pass	Pass	
Method B - Synthetic Sea Water	Pass	Pass	
Copper Strip Corrosion	1a	1a	ASTM D 130
Shell Four-Ball Wear, Scar Diameter, mm	0.40	0.40	ASTM D 4172
Falex Wear Test			ASTM D 2670
Teeth Wear, Amount of Surface Loss	None	Not Tested	
Total Wear, Block and Journal Wear, Grams	0.00	Not Tested	
NSF Registration No. / Category Code	124534 / H1	128221 / H1	

## AEROSOL

TYPICAL PROPERTIES	MAGNA-PLATE 78	METHOD
Propellant	Propane and Butane	
Flash Point	464°F (240°) Concentrate, typical -94°F (-70°C) Propellant, typical	ASTM D 92
Pour Point	0°F (-18°C) Concentrate, typical	ASTM D 97
Texture	Medium Oil Film	
Appearance	Clear to very light straw	
Consistency	Medium	
Spray Pattern	Stream	
NSF Reg. / Category Code	072191 / H1	

## TRIGGER SPRAY

TYPICAL PROPERTIES	MAGNA-PLATE 78	METHOD
Pour Point	0°F (-18°C) Concentrate, typical	ASTM D 97
Texture	Medium Oil Film	
Appearance	Clear to very light straw	
Consistency	Medium	
Spray Pattern	Stream	
NSF Reg. / Category Code	128302 / 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](http://www.jax.com) or by contacting JAX INC.

CONTAINER SIZE	MAGNA-PLATE 78	MAGNA-PLATE 78E
2000 lb. Tote	00780-276	00781-276
400 lb. Drum	00780-400	00781-400
120 lb. Keg	00780-120	00781-120
35 lb. Pail	00780-035	00781-035

CONTAINER SIZE	MAGNA-PLATE 78	MAGNA-PLATE 78E
Gallon (4/cs)	00780-004	00781-004
Trigger Spray (12/cs)	00780-007	N/A
Aerosol (12/cs)	JAX114	N/A



**JAX INC.**

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