

JAX MAGNA-PLATE 78

NSF H1 Food Machinery Oil with Micronox®



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

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.



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. No. / 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. No. / Category Code | 128302 / H1 | |

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 |
| 35 lb. Pail Trigger Refill | 078TS-035 | NA |

CONTAINER SIZE

| | MAGNA-PLATE 78 | MAGNA-PLATE 78E |
|------------------------------|----------------|-----------------|
| Gallon (4/cs) | 00780-004 | 00781-004 |
| Gallon (4/cs) Trigger Refill | 078TS-004 | N/A |
| Trigger Spray (12/cs) | 078TS-007 | N/A |
| Aerosol | JAX114 | N/A |



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