

# TECHNICAL DATA SHEET

## COSMOLUBRIC® B-220 FMA VEGETABLE OIL BASED FIRE-RESISTANT HYDRAULIC FLUID



COSMOLUBRIC® B-220 FMA is the latest development in Quaker Houghton's complete line of fire resistant hydraulic fluids for industry. COSMOLUBRIC® B-220 FMA is a vegetable oil derived fire resistant hydraulic fluid formulated with additives to enhance corrosion protection, metal passivation, and oxidative inhibition. COSMOLUBRIC® B-220 FMA is Factory Mutual approved as a less hazardous fluid.

### Applications

COSMOLUBRIC® B-220 FMA was designed to replace mineral oil based hydraulic fluid as well as polyol ester fluids. COSMOLUBRIC® B-220 FMA can be used in or near fire hazards and in environmentally sensitive hydraulic applications without compromising the overall hydraulic system operation.

### Recommendation for Use

COSMOLUBRIC® B-220 FMA can be used in equipment designed for traditional mineral oil in applications where a fire hazard exists.

### Properties

PROPERTY	TYPICAL VALUE	UNIT
Appearance	Clear light amber fluid	
ISO viscosity grade	46	
Viscosity		SUS
at 32°F (0°C)	1355	
at 100°F (37.8°C)	221	
at 104°F (40°C)	205	
at 212°F (100°C)	59	
Viscosity Index	227	
Total Acid Number	0.65	mg KOH/ gm
Specific Gravity at 60°F (15.6°C)	0.92	
Pounds per U.S. Gallon at 60°F	7.65	lbs/gal

### Benefits

- Factory Mutual Approved as a fire resistant hydraulic fluid that protects personnel and property from accidental fire and may lower insurance premiums
- High viscosity index allows the fluid to be used at a wide temperature range
- Fluid has an inherently low Total Acid Number that resists oxidation
- Fluid is a GREEN product that is composed of renewable resources
- USDA Certified as a Bio-based product that is composed of a majority of renewable materials
- Compatible with polyol ester fluids for ease of conversion
- Contains additives to enhance oxidation stability that will extend service life
- Provides excellent lubrication characteristics which extends pump and component life

### Health, Safety and Handling

Please consult the Safety Data Sheet (SDS) for information on storage, safe handling and disposal. The conditions or methods of handling, storage, use and disposal of the product are beyond our reasonable control - we assume no liability for any ineffectiveness of the product or any injury or damage, arising out of or in connection with these conditions.

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