

COSMOLUBRIC HF130

Less Hazardous Synthetic Ester Hydraulic Fluid

DESCRIPTION

Houghton's research and development team have successfully produced an advanced anti-oxidation package providing **Cosmolubric HF130** with outstanding performance under conditions of elevated temperature and high operating pressures. Exhaustive oxidation testing to IP48 standards conducted at continuous temperatures to 200°C proves that sludge and varnish formation is prevented. **Cosmolubric HF130** provides superior performance when compared to other commercially available synthetic ester fluids. The Cosmolubric HF series of synthetic ester hydraulic fluids are approved by Factory Mutual Research as *Group 11* (HF-D) less flammable hydraulic fluids.

FEATURES

- Fluid is a GREEN product that is composed of renewable resources
- Provides excellent lubrication characteristics which extends pump and component life
- High viscosity index allows the fluid to be used at a wide temperature range
- Contains additives to enhance oxidation stability that will extend service life
- Hydrolytically stable to resist degradation when water contamination is present
- Cosmolubric HF130 is easily biodegradable and ideal as a substitute for mineral oil based fluids in environmentally sensitive systems.

TYPICAL VALUES

| | | |
|-----------------------|---|--------|
| Appearance | Clear amber mobile liquid | |
| Viscosity (ASTM D445) | | |
| @ 40° C | 60.7 cSt | |
| @ 100° C | 12.2 cSt | |
| Viscosity Index | (ASTM 2270) | - >200 |
| Density @ 15° C | (ASTM 1298) | -0.920 |
| Pour Point | (ASTM D97) | -23°C |
| Flash Point | (ASTM D92) | -290°C |
| Fire Point | (ASTM D92) | -325°C |
| TAN mgKOH/gm | (ASTMD974) | <1.5 |
| Pump Wear (total) | (ASTM D2882) | <15mg |
| Rust Prevention | (ASTM 665A 72 hrs) | Pass |
| | (specimens clean and bright) | |
| Oxidation resistance | (IP48, 200°C / 16 hours) | |
| | (Tan increase v2.0 Viscosity ratio 1.5) | |

HEALTH AND SAFETY

Refer to MSDS for proper handling and disposal. Please note that the MSDS includes handling, health and disposal information which should be passed on to your employees, and to anyone else who comes in contact with our product. Additional advice can also be obtained from your local Houghton representative.

NOTE: Read and understand all precautions on container labels before using this product.

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REFERENCES

HOW TO USE

System Components

Cosmolubric HF130 is equipment compatible and provides the essential lubricating properties for all industrial pumps and related system components. Pump testing to ASTM D-2882 gives less than 15 milligrams total wear. This represents excellent performance in hydraulic systems.

Elastomers

Cosmolubric HF130 is compatible with the majority of standard elastomers used with oil based hydraulic fluids. Compatible materials are best used for moving or seal applications while for static sealing they are preferred but not essential. Buna N, Viton, Teflon, Silicone and Polyurethane are preferred while Butyl, Ethylene Propylene and Neoprene should be considered marginal.

Fluids

Cosmolubric HF130 is miscible and compatible with other polyol ester fluids, water containing fluids are not compatible. A complete system drain and flush is highly recommended when converting from other fluid types.

SHELF LIFE & AVAILABILITY

Under normal conditions the recommended shelf life for **PRODUCT** is a minimum of Twelve (12) months, unless otherwise specified.

PRODUCT is available in 205 litre drums. Other sizes may be available upon request, please contact your Houghton sales representative.

RELATED PRODUCTS

- CUT-MAX: Straight cutting oils
- HOCUT: Water miscible metalworking fluids
- DROMUS: Soluble metalworking fluids
- ADRANA: Micro-emulsion metalworking fluids
- METALINA: Synthetic metalworking fluids
- HOUGHTO-GRIND: Straight and water miscible grinding fluids
- HOUGHTO-DRAW: Straight and water miscible drawing stamping and forming fluids.
- CINDOL: Straight and water miscible drawing and forming fluids especially for Aluminium parts.
- CERFA-KLEEN: Water miscible cleaning fluids
- RUST VETO: Straight and water miscible rust preventive fluids.

FLUID MAINTENANCE

These can be routinely performed and organised through Houghton's Customer Service laboratory, please contact your sales representative for further information about this service.

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