



Synstar[®] Hydraulic HFDU

Super high performance fire resistant hydraulic fluid

Customer Benefits

Best-in-class fire resistance and equipment protection

Synstar Hydraulic HFDU is a highly advanced synthetic hydraulic fluid designed to maximise fire resistance and meets and exceeds 7th Luxembourg Report requirements. The fully synthetic ester based fluid delivers outstanding and highly stable high viscosity index performance and stays in grade in demanding high temperature operations, over a very long service period.

Synstar Hydraulic HFDU delivers maximum safety in high temperature operations, where hot surfaces or flame may otherwise be a source of ignition for conventional hydraulic fluids, or where the risk of fire due to high-pressure fluid release is of concern.

Synstar Hydraulic HFDU leading edge anti-oxidation additive technologies deliver exceptional performance at elevated temperatures, resisting the formation of sludge and other oxidative products, and allowing for significantly increased system operating pressures and operating sensitivity while significantly improving filter efficiency.

Super high performance wear protection

Synstar Hydraulic HFDU additive technologies deliver superior protection against shearing and wear over extended operating periods, optimising oil film durability and offering maximum equipment protection in very hot or very wet operations. This advanced fluid provides outstanding hydrolytic stability, and rapid water separation, resisting rust or corrosion formation.

Product features

- **Synstar Hydraulic HFDU is a latest generation fully synthetic premier performance fire resistant hydraulic fluid, designed to deliver long service and extended equipment life in demanding operations, where fire hazard is present.**

Applications

- Recommended for use where high temperature surfaces, flame or other sources of ignition would cause fire in conventional mineral hydraulic fluids, or where the risk of fire due to high pressure fluid release is of concern.

| Typical test data | | |
|----------------------------|--------------|---------|
| Test | Test methods | Results |
| Viscosity Grade | | 46 |
| Appearance | Visual | B & C |
| Visc. Kinematic at 40°C | ISO 3104 | 45.74 |
| Visc. Kinematic at 100°C | ISO 3104 | 9.41 |
| Visc. Index | ISO 2909 | 195 |
| Flash Point, COC °C | ISO 2592 | 320 |
| Pour point, °C | ISO 3016 | -30 |
| Density, 15°C, Kg/l | ASTM D1298 | 0.9234 |
| Cu Corrosion, 3h, 100°C | ASTM D0130 | 1A |
| FZG Damaged Load, a/8.3/90 | DIN 51354 | 12 |

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheets.

Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDSs are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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