# OPTIMUS FIRE RESISTANT HYDRAULIC FLUID HFDU

**PRODUCT DESCRIPTION:**

Optimus Fire Resistant Hydraulic Fluid HFDU is an ester-base, high-performance and fire resistant hydraulic fluid. It is designed for hydraulic equipments operating in locations comprising a fire risk, such as iron and steel works (cooking plants, blast furnaces, continuous casting), mines, etc. The use of this fluid lessens the serious risks presented by recourse to a mineral oil on the occasion of rupture of a hose or when a leak gives rise to oil mist, in the immediate vicinity of a flame, a part in the process of melting or a switch cupboard.

**APPLICATION:**

Optimus Fire Resistant Hydraulic Fluid HFDU is used in areas of the manufacturing industry where there is high risk of fire such as hot strip mills, coil handling facilities, pipe mills and continuous casters.

**FEATURES & BENEFITS:**

- With its considerable fire resistance properties, it is associated with exceptional lubrication properties which guarantee a substantial reduction in wear, and therefore a longer service life of the hydraulic components
- High flash point and high spontaneous ignition temperature
- Low-pour point providing good performances at low temperature
- Very high natural viscosity index, guaranteeing a viscosity constantly adapted to the temperature range in which the fluid must be used
- Very good anti-corrosion properties in relation to ferrous and non-ferrous metals making up a hydraulic circuit
- Very good oxidation stability thus, an enhanced service life
- The product is not expected to produce adverse effects on health
- Maximum operating temperature is 120°C

**PERFORMANCE LEVELS:** Meets and Exceeds:

- ISO 6743/4 HFDU
- ISO 12922

**TYPICAL PROPERTIES:**

| PARAMETERS | TEST METHOD | UNIT | OPTIMUS FIRE RESISTANT HYDRAULIC FLUID HFDU |
|---|---|---|---|
| ISO VG | | | 68 |
| Kinematic Viscosity @ 104°F /40°C | ASTM D-7042 | cSt | 68 |
| Kinematic Viscosity @ 212°F /100°C | ASTM D-7042 | cSt | 12.9 |
| Viscosity Index | ASTM D-2270 | - | 184 |
| Air | ASTM D-3427 | minutes | 5.5 |
| Neutralization Number (TAN) | ASTM D-974 | KgKOH/g | 1.5 |
| Pour Point (max) | ASTM D-97 | °C | -42 |
| Flash Point (min) | ASTM D-92 | °C | 290 |
| FZG | DIN 51354 | - | 12+ |

**HEALTH & SAFETY, ENVIRONMENT:**
Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website www.lubrex.net

**HEALTH & SAFETY:**
This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet www.lubrex.net

**PROTECT THE ENVIRONMENT:**
Take used oil to an authorized collection point. Comply with local regulation. Do not discharge into drains, soil or water.

**STORAGE:**
We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.