

## H y d r a u l i c O i l F R H F D U

### FULLY SYNTHETIC BIODEGRADABLE HYDRAULIC FLUID FIRE – RESISTANT / HFDU Specification

#### Description

**Hydraulic Oil FR HFDU** is a high performance, fire-resistant, readily biodegradable hydraulic fluid based on synthetic esters. A special additive package delivers excellent extreme pressure properties, thermal oxidation resistance, anti-wear and non-foaming control. Because of the high Viscosity Index **Hydraulic Oil FR HFDU** provides extremely wide operating temperature range. **Hydraulic Oil FR HFDU** allows for very long oil-change intervals resulting in cost effectiveness and CO<sub>2</sub> emissions reduction. Produced in viscosity classes 15/22/32/46/68/100.

#### Industry Performance Standards

- **HFDU: ISO 6743/4**

#### Areas of Application

**Hydraulic Oil FR HFDU** is specifically designed for use in all hydraulic systems, both hydrostatic and hydrodynamic. **Hydraulic Oil FR HFDU** is recommended for hydraulic applications in environmentally sensitive areas with a high fire risk – immediate vicinity of potential flame or heat sources. **Hydraulic Oil FR HFDU** is particularly used in mining, power generation, railway and power line maintenance, construction, earth moving and other industries.

Before changing over to **Hydraulic Oil FR HFDU** please enquire for our filling instructions.

**Note:** Cleaning function of **Hydraulic Oil FR HFDU** may loosen any deposits in the hydraulic system.

#### Characteristic features:

- Very good fire-resistance – reducing possibility of ignition in case of fluid leakage;
- Ultimate performance and anti-wear protection;
- Outstanding thermal oxidation stability;
- Extra high Viscosity Index - wide operating temperature range;
- Very long oil-change interval > reduction in CO<sub>2</sub> emissions;
- Non-toxic, readily biodegradable

#### TYPICAL CHARACTERISTICS

PARAMETER	UNIT	TEST METHOD	VALUE
Density at 15 °C	kg/m <sup>3</sup>	ISO 12185	920
Kinematic Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	46
Kinematic Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	9,5
Viscosity Index			196
Fire point	°C	ASTM D92	>360
Pour point	°C	ASTM D97	-40
Flash point, COC	°C	ASTM D92	>320
Biodegradability (within 21 days)	%	CEC-L-33-A-93	>90

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