



ENOC AXIS FR (HFD-U)

PRODUCT DESCRIPTION

ENOC AXIS FR (HFD-U) are high quality synthetic ester based fire resistant hydraulic fluids designed for uses in applications where fire hazards exist. **FR (HFD-U)** do not contain water, mineral oil or phosphate ester and are based on high quality, synthetic, organic esters and carefully selected additives to achieve excellent hydraulic fluid performance. It can also be used in environmentally sensitive hydraulic applications without compromising the overall hydraulic system operations

APPLICATIONS

- ◆ Particularly recommended in the steel industry, specifically for hydraulic systems in continuous casting machines of blast furnaces, rolling machines, discharge racks.
- ◆ Coke plants for coke pushers.
- ◆ Suitable for all hydraulic systems and machines/plants where flames or high temperatures and risk of fire caused by fluid leakage exists.

PERFORMANCE STANDARDS

AXIS FR (HFD-U) meets and exceeds the following International specifications:

- ◆ Biodegradability, percent as per CEC-L-33-T-82 : > 90
- ◆ Toxicological properties : Categorized as non-hazardous and environmentally safe

The AXIS FR (HFD-U) oil viscosity grade should be used according to the equipment manufacturer's recommendations.

BENEFITS

AXIS FR (HFD-U) provides:

- ◆ Fire resistant high Ignition temperature and low heat release
- ◆ Properties that limit fire propagation
- ◆ Excellent shear stability
- ◆ Fully biodegradable, non-toxic, environmentally compatible and non-toxic to aquatic life.
- ◆ Have excellent thermal stability.
- ◆ Exhibit good temperature/ viscosity relationship and have high viscosity index.
- ◆ Fortified with additives for good corrosion protection, metal passivation and oxidation inhibition. Have excellent hydrolytic stability.
- ◆ Do not attack ferrous & non-ferrous metals and are compatible with most elastomers, gaskets and fittings commonly used in hydraulic systems.

Technical Data*		
ISO Grades	46	68
Kinematic Viscosity		
mm ² /s @ 40°C	42 to 50	62 to 72
mm ² /s @ 100°C	8.5 to 10.5	11.5 to 13
Viscosity Index, min	180	180
Flash Point, COC, °C	>310	>305
Fire Point, °C	>330	>330
Auto Ignition Temperature, °C	>400	>400
Product code		

*The information prepared provides the typical properties that are considered as representative. Some variation which will not affect performance is possible

HEALTH AND SAFETY, ENVIRONMENT

The information on this product is available in the ENOC Material Safety Data Sheet (MSDS) as a guide to the precautions and safe handling of this product and its disposal. For further information we recommend you review the MSDS. Handled correctly there are no special precautions suggested.