

# EKO HYDRAULIC SAFE HFDU 46, 68

## Fire resistant hydraulic fluids

### Description

EKO HYDRAULIC SAFE HFDU 46 and EKO HYDRAULIC SAFE HFDU 68 are synthetic, anhydrous, fire resistant, polyol ester type hydraulic fluids.

EKO HYDRAULIC SAFE HFDU 46 and EKO HYDRAULIC SAFE HFDU 68 thanks to their very high ignition resistance and flame spread resistance protect against fire in case of accidental contact between the hydraulic fluid and ignition sources (flames, sparks and hot equipment surfaces).

EKO HYDRAULIC SAFE HFDU 46 and EKO HYDRAULIC SAFE HFDU 68 have a very high shear resistance and hence the lubricant's resistance to ignition and flame spread properties are maintained throughout the duration of its use.

### Applications

- EKO HYDRAULIC SAFE HFDU 46 and EKO HYDRAULIC SAFE HFDU 68 are recommended for use in hydraulic systems operating under high pressure, in industrial applications where there is a high risk of fire. Applications include blast furnaces and foundries.
- They are suitable for applications where biodegradable lubricants use is required.

### Special Instructions

Fire resistant hydraulic fluids of different types should not be mixed in hydraulic systems. For instance, mixing water-containing HFA, HFB or HFC hydraulic fluids with synthetic, anhydrous HFDU or HFDR hydraulic fluids, will lead to the formation of two layers (water/oil), and to a potential damage to the pump and alteration of the performance attributes of the hydraulic fluids.

### Specifications

ISO 6743/4 HFDU, ISO 12922.

### Advantages

- Very high flash point and auto-ignition point.
- Excellent stability against oxidation, leading to increased life cycle of both the lubricant and the equipment.
- High protection against corrosion and rust and excellent performance against wear, leading to increased equipment life cycle.
- Very high viscosity index, ensuring stable fluidity at a wide temperature span.
- Low pour point, leading to good performance at low temperatures.
- Easily biodegradable.
- Without adverse effects on human health.

## Typical Characteristics

Properties	Methods	Units	EKO HYDRAULIC SAFE HFDU 46	EKO HYDRAULIC SAFE HFDU 68
ISO Viscosity Grade	-	-	46	68
Density, 15°C	ASTM D1298	g/ml	0.92	0.93
Kinematic Viscosity, 40°C	ASTM D445	cSt	46	68
Kinematic Viscosity, 100°C	ASTM D445	cSt	9.3	12.8
Viscosity Index (VI)	ASTM D2270	-	190	190
Foaming characteristics, Tendency, Seq. I	ASTM D892	ml	10	10
Foaming characteristics, Stability, Seq. I	ASTM D892	ml	0	0
Flash Point, COC	ASTM D92		306	306
Auto-ignition Point	ASTM E659	°C	420	430
Pour Point	ASTM D5950	°C	-42	-40

## Health and safety

Protect the environment while disposing of used product. Used lubricants should be collected at specific points to ensure they do not pollute the environment. Do not mix with solvents, brake fluids, antifreeze fluids and water, to allow for proper handling.

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