



## PRODUCT DATA SHEET



### EKO HYDRAULIC SAFE HFDU 68 Fire resistant hydraulic fluid

#### DESCRIPTION

EKO HYDRAULIC SAFE HFDU 68 is a synthetic, anhydrous, fire resistant, polyol ester type hydraulic fluid.

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

EKO HYDRAULIC SAFE HFDU 68 has 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.

#### SPECIFICATIONS

ISO 6743/4 HFDU, ISO 12922.

#### APPLICATIONS

- EKO HYDRAULIC SAFE HFDU 68 is 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.
- It is suitable for applications where biodegradable lubricants use is required.

#### 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.



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### ADVANTAGES

- 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 68
Density at 15°C	ASTM D1298	g/ml	0.89
Kinematic viscosity at 40°C	ASTM D445	cSt	68
Kinematic viscosity at 100°C	ASTM D445	cSt	12
Viscosity index	ASTM D2270	-	176
Foaming characteristics, Tendency, Seq. I	ASTM D892	ml	10
Foaming characteristics, Stability, Seq. I	ASTM D892	ml	0
Acid number, TAN	ASTM D664	mg KOH/g	1.4
Flash point, min	ASTM D92	°C	298
Auto-ignition point, min	ASTM E659	°C	430
Pour point	ASTM D5950	°C	-50
Air release	ASTM D3427	min	4
Water separability, 54°C , Time to 40-37-3 (ml)	ASTM D1401	min	25



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### **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.

### **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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