

HYFLOWSAFE HFDU

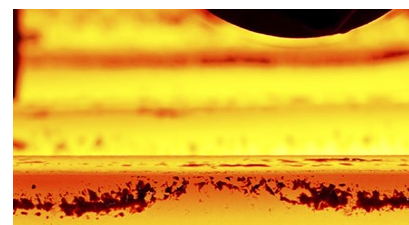
Biodegradable fire-resistant hydraulic fluids

MaxPro1 HyflowSAFE HFDU fluids are new generation, water-free, fire-resistant hydraulic fluids. They are formulated with organic esters meeting Factory Mutual Global standards, and specifically selected additives. These products possess outstanding anti-wear properties and have inherently good lubricity, high oxidation stability and excellent detergency which contribute to system cleanliness.

These ISO Class HFDU compliant fluids provide good performance in conventional hydraulic system and also have superior fire resistance when compared with mineral oils. Pressurized oil in hydraulic systems presents a considerable fire hazard, particularly where ignition sources are present. When hydraulic oil is released under pressure, it often results in an atomized spray or mist of oil droplets that may extend as far as 10m. Such oil spray can be ignited readily by hot surfaces, such as heated or molten metal, electric heaters, open flames or welding arcs,. The resulting fire usually is torch-like, with and very high heat release rate and can cause significant property damage, even loss of human lives.

The use of **MaxPro1 HyflowSAFE HFDU** fluids lessen the serious risks of such occurrences. In addition, they are biodegradable with low ecotoxicity, and are particularly suited for use in environmentally sensitive areas.

HyflowSAFE HFDU fluids are **MaxPro1 greenearth** products; our small contributions to a better tomorrow.



APPLICATIONS

MaxPro1 HyflowSAFE HFDU premium synthetic hydraulic fluids are designed to deliver long service and extended equipment life in demanding operations, where fire hazards may be present. These oils are recommended to be used at a maximum operating temperature of 120°C.

- Recommended for use where high temperature surfaces, flame or other sources of ignition would cause fire in conventional mineral hydraulic fluids, or where the risk of fire due to high pressure fluid release is of concern.
- Typical applications are to be found in iron and steel works (coking plants, blast furnaces, continuous casting), tunnel boring, metal, mining, glass industries, etc.



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FEATURES AND BENEFITS

- Premium ashless formulations of low ecotoxicity and high biodegradability. Reduced environmental impact in the event of a leak or accidental spillage.

- Outstanding fire-resistant properties throughout the fluids' life and reduces the risk of violent explosion when in contact with open flames or hot metal surfaces.
- Effective protection throughout the range of operating conditions, including low and severe duty, high load conditions.
- Excellent viscosity/temperature characteristics. Minimum changes in viscosity with variations in temperature.
- Outstanding thermal and oxidation stability.
- Very low pour point properties for superior low-temperature performances.

PERFORMANCE LEVEL

- Classification HFDU according to ISO 6743-4

TYPICAL PROPERTIES

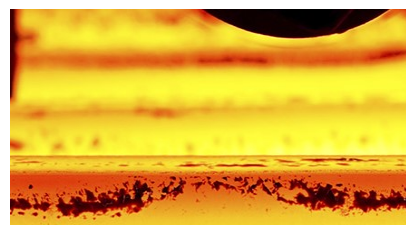
ISO VG Grade	Test Method	HFDU 46	HFDU 68
Product Code		6055	6056
Density @ 15°C, kg/l	ASTM D4052	0.920	0.925
Appearance	Visual	Clear	Clear
Colour ASTM	ASTM D1500	<0.5	<0.5
Viscosity, cSt @ 40°C @ 100°C	ASTM D445	47.8 9.61	68.7 12.7
Viscosity Index	ASTM D2270	191	187
Flash Point COC, °C	ASTM D92	>320	>320
Fire Point,	ASTM D92	>370	>370
Pour Point, °C	ASTM D97	-51	-48
Air Release @ 50°C, min.	DIN 51381	4	8
Demulsibility, min.	ASTM D1401	10	10
Rust Prevention	ASTM D665A	Pass	Pass
Copper Corrosion	ASTM D130	1a	1a

AVAILABLE SIZE AND PART NUMBER

	200L
HyflowSAFE HFDU 46	6055-200
HyflowSAFE HFDU 68	6056-200

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