



Eni ARNICA S/FR 46

Eni Arnica S/FR 46 is a biogradable hydraulic oil approved by Factory Mutual. It is designed for hydraulic systems exposed to fire hazard owing to the presence of very high temperatures, such as in rolling mills or other ignition sources are present such as electric arc and welders.

It's based on organic biodegradable esters with very high viscosity index and high flash point. It has an outstanding combustion resistance and an excellent self-extinguish property (spray flammability test).

Eni Arnica S/FR 46 can also be used for hydraulic systems of industrial vehicles (earth-moving machinery or farm-machinery) operating in environmental sensitive areas.

Characteristics (typical values):

Eni ARNICA S/FR 46	Unit	46	Method
Kin. Viscosity at 40°C	mm ² /s	46	ASTM D 445
Density at 15°C	kg/m ³	886	ASTM D 4052
Viscosity Index		185	ASTM D 2270
Pourpoint	°C	-30	ASTM D 97
Rust test/B		pass	ASTM D 665

Properties and Performances:

- Reduces the possibility of a fire hazard thanks to outstanding combustion resistance and excellent self-extinguish property
- Factory Mutual approved overcoming the spray flammability test
- Biogradable over 70% according to the OECD 301B method
- Suitable for applications operating in a wide temperature range thanks to very high viscosity index
- Maximizes water removal system efficiency thanks to excellent demulsibility.
- Protects components thanks to outstanding antiwear properties (FZG Failure Load Stage:12°)
- Non-corrosive behavior against metal components of the circuit

Warnings:

In Order to guarantee a long life of **Eni Arnica S/FR 46**, it is good practice to keep the average temperature of the fluid in reservoir under 70°C, tolerating a pick of 80°C for a very short period.

Specifications:

- ISO 12922 HFD-U
- ISO 15380 HEES
- Danieli Standard n. 0.000.001 Rev.15
- FM Approval Class 6930