



APPLICATIONS

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

CUSTOMER ADVANTAGES

- 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
- Biodegradable 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 behaviour against metal components of the circuit

SPECIFICATIONS - APPROVALS

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





CHARACTERISTICS

Properties	Method	Unit	Typical
Appearance	APM 27	-	clear
Density at 15°C	ASTM D 4052	kg/m ³	886
Viscosity at 40°C	ASTM D 445	mm ² /s	46.0
Viscosity Index	ASTM D 2270	-	185
Flash point COC	ASTM D 92	°C	300
Pour point	ASTM D 97	°C	-30
Rust test/B	ASTM D 665	-	pass

WARNINGS

- In order to guarantee a long life of product , it is a good practice to keep the average temperature of fluid present in reservoir under 70°C, tolerating a pick of 80°C for very short period

