



eni ARNICA S

The **eni ARNICA S** series are biodegradable synthetic fluids for use in plants particularly exposed to fire hazards or involving soil-contamination risks. They are formulated from synthetic bases composed of organic esters treated with special additive packages (ISO-L-HFUD classification).

CHARACTERISTICS (TYPICAL FIGURES)

eni ARNICA S		46	68
Viscosity at 40°C	mm ² /s	48	62
Viscosity at 100°C	mm ² /s	9.5	11.3
Viscosity Index	-	186	180
Flash Point COC	°C	305	308
Fire Point ASTM D 92	°C	370	376
Pour Point	°C	-36	-30
Mass density at 15°C	kg/l	0.921	0.932

PROPERTIES AND PERFORMANCE

- **eni ARNICA S** have very good fire-resistance, thus reducing the possibility of ignition by hot or molten metals, electric sparks, naked flames and similar potential sources of fire which can occur in case of leakage of fluid or rupture of the hydraulic circuit. This latter characteristic is attested to by the fact that they pass the FACTORY MUTUAL STANDARD Spray Flammability Test.
- **eni ARNICA S** are over 70% biodegradable according to the OECD 301B - modified STURM TEST.
- They possess very good lubricating properties, falling in FZG Stage 12 and having a weight loss of 38 mg in the Vickers Test.
- Their high Viscosity Index permits their use over an extremely wide range of temperatures. Their anticorrosive and antirust properties ensure effective protection and conservation of all metal components of the circuit.
- **eni ARNICA S** fluids do not produce stable emulsions. Indeed, they separate rapidly from water, which can be drained off from the bottom of the system tank. Hence the presence of water in the circuit is minimized and the continuity of the lubricant film is guaranteed, thus ensuring correct lubrication.
- Their antifoam properties favour the rapid breakdown of foam and prevent possible malfunctioning of the plant due to this cause.
- Their very good thermal stability permits a long period of service, thus reducing downtime for routine draining and refilling.
- They do not give off toxic vapours if they happen to come in contact with surfaces at high temperatures.

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APPLICATIONS

The **eni ARNICA S** series are especially suitable for use as hydraulic fluid indoors and out, when there is a fire hazard owing to the presence of very high temperature materials, such as in rolling mills or when other sources of ignition are present e.g. electric arcs, welders, etc. Thanks to their biodegradability characteristics, the **AGIP ARNICA S** series find particular application in farm- and earth-moving-machinery where accidental losses from the circuits could cause soil contamination.

SPECIFICATIONS

The **eni ARNICA S** series are approved or meet the requirements of the following specifications:

INLINE HYDRAULIK GMBH
ILVA CRS/TCM 425
LEDUC HYDRAULIK
MANNESMAN REXROTH RD 90221/05.93
SCHAEFF
VIIth Report of Luxemburg - HFDU

eni ARNICA S are approved by Danieli according to the Standard 0.000.001 specification.