

Description

The Bio Telex product is a synthetic and biodegradable hydraulic fluid. A careful selection of bases (synthetic esters) and additives endow it with excellent lubricant properties, allowing its use in power transmissions and machinery in environmentally sensitive areas.

It is a fluid specially formulated to replace mineral hydraulic oils in systems where there is a need for or interest in using a biodegradable fluid. Therefore, it is recommended for hydraulic systems, hydrostatic couplings, control systems or moderately loaded dividers in machinery for forestry, civil works, agriculture, etc. to minimise the risks of environmental impact in the event of accidental spills. In order to maximise performance, it is advisable to subject the circuit containing mineral oil to a thorough washing process.

Properties

- Excellent anti-wear protection.
- Very good filterability.
- High viscosity index. Wide range of use temperatures.
- Compatible with typical Viton or NBR rubber joints.
- Resistance to rusting.
- Very good lubricity properties.



Quality levels, approvals and recommendations

- ISO 6743/4 (HEES)
- ISO 15380 (HEES)
- HV performance according to DIN 51524/3, except resistance to ageing
- Biodegradable according to OECD 301-B
- Ecolabel Certificate Bio Telex 46 and 68*
- Manuli Hydraulics (ISO 46)*

* Formal approval

Technical specifications

	UNIT	METHOD	VALUE	
			BIO TELEX 46	BIO TELEX 68
Density at 15 °C	ASTM D 4052	g/cm ³	0.912	0.924
Viscosity at 100 °C	ASTM D 445	mm ² /s	9.8	12.4
Viscosity at 40 °C	ASTM D 445	mm ² /s	46.0	68.5
Viscosity index	ASTM D 2270	-	180	182
Pour Point	ASTM D 97	°C	-45	-39
Flash point, V/A	ASTM D 92	°C	310	318
FZG, load step	DIN 51354	-	>10	12
Copper corrosion, 3 h at 100 °C	ASTM D 130	-	1a	1a
Foams (stability)	ASTM D 892	mL	0 / 0 / 0	0 / 0 / 0
Low temperature fluidity, -20 °C, 168 h	ASTM D 2532	%	1.868	3.214

The above mentioned characteristics are typical values and should not be considered product specifications.

A safety data sheet is available on request.

repsol.com
 +34 901 111 999
lubricantes@repsol.com

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