



MAKER BIO TELEX

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 elastomer.
- Resistance to rusting.
- Very good lubricity properties.

Quality levels, approvals and recommendations

- MANULI* (ISO 46)
 - DIN: 51524/3 HV (except resistance to ageing) (ISO 32, ISO 46, ISO 68)
 - Biodegradable according to OECD 301-B (ISO 32, ISO 46, ISO 68)
 - ISO: 6743/4 HEES, 15380 HEES (ISO 32, ISO 46, ISO 68)
- *Formal approval



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Technical specifications

	UNIT	METHOD	VALUE		
ISO Viscosity Grade			32	46	68
Density at 15 °C	g/cm3	ASTM D4052	0.910	0.912	0.924
Viscosity at 100 °C	cSt	ASTM D445	7.4	9.8	12.4
Viscosity at 40 °C	cSt	ASTM D445	32	46	68
Viscosity index	-	ASTM D2270	202	180	182
Pour point	°C	ASTM D97	-38	-45	-39
Flash point, open cup	°C	ASTM D92	300	310	318
FZG, damage stage	-	DIN 51354	>10	>10	12
Corrosion Cu, 3hrs 100 °C	-	ASTM D130	1b	1a	1a
Foams: Sec I, II, III, stability	mL	ASTM D892	0/0/0	0/0/0	0/0/0
Low temperature fluidity, -20 °C, 168h	cSt	ASTM D2532	850	1,870	3,210

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