BIOSPEC HYD

Hydraulic

Biodegradable and non toxic hydraulic oil

APPLICATIONS

- **BIOSPEC HYD** is biodegradable hydraulic oil formulated with refined vegetable oil that provides excellent lubricity.
- **BIOSPEC HYD** is recommended for use in hydraulic system operating in environmentally sensitive area.

SPECIFICATIONS

- Biodegradable (97% CEC L 33-A-93)
- Non-toxic
- ISO 6743 PARTIE 4: HETG
- DIN 51517-3
- Exceed 224 US Steel specification
- For food grade approbation, contact our technical service.

CUSTOMERS ADVANTAGES

- **BIOSPEC HYD** offers exceptional protection against rust and corrosion for steel and bronze parts.
- **BIOSPEC HYD** offer optimum performance in all hydraulic lubrication applications.

CHARACTERISTICS

PROPERTIES	ASTM METHOD	32	46	68
Viscosity grade ISO	-	32	46	68
Viscosity in cSt at 40°C	D445	34	44.4	65.3
Viscosity in cSt at 100°C	D445	7.7	9.5	12.5
Viscosity index	D2270	200+	200+	190+
Density in kg/dm^3 at 15°C	D1298	0.91	0.92	0.92
Viscosity in cP at -20°C	D2983	1000	1200	1500
Color (maximum)	D1500	0.5	0.5	0.5
Flash Point, open cup test, in °C	D92	235	250	250
Pour Point in °C (minimum)	D97	-35	-30	-35
Copper strip corrosion test, 3 hours at 100°C	D130	1a	1a	1a
Rust test ASTM, Synthetic sea water	D665B	Pass	Pass	Pass
Foaming sequence I, 5 minutes after air injection	D892	15/0	15/0	15/0
Stage FZG pass (DIN 51534)	---	12+	12+	12+
Minimum start-up temperature in °C [1]	---	-25	-20	-25
Service temperature in °C [2]	---	-12 to 75	-10 to 80	-12 to 85

Remark: Although the preceding values are typical properties, they do not represent guaranteed characteristics.

[1] Start-up is defined as the temperature at which the oil viscosity reaches 8500 cP. The system must be in good conditions and not loaded.

[2] The upper & lower temperature limits are the temperatures at which the oil viscosity reaches 13 cSt and 750 cP, respectively. These values are based on manufacturer recommendations. Values may vary from manufacturers. To select the proper lubricant & viscosity grade, please verify manufacturer specifications.

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