

## Description

Top quality oils for hydraulic circuits. Oils manufactured with top quality bases from paraffinic crude oils subject to solvent refining and hydrofinishing processes which give it high stability against rust and a high viscosity index. The additives used in the formulation are of the ashless type.

Its use, on being a hydraulic oil with ashless-type anti-wear additives, is recommended for systems running under very severe conditions with high filterability requirements: servovalves, robotics, numerical control equipment, etc. In hydraulic engines running at very high loads (pressure and temperature). Wide temperature ranges.

## Properties

- Excellent EP anti-wear properties (FZG).
- Low pour point, which facilitates good pumpability at low temperatures.
- Good anti-rust and anti-corrosion capacity. Does not attack copper and its alloys.
- Very good water separation properties (demulsibility).
- Resistance to foam formation and easy to release air (deaeration).
- High resistance to oxidation. Excellent thermal stability.
- Exceptional filterability.
- Very good performance with joints and elastomers.

## Quality levels, approvals and recommendations

In accordance with the product's viscosity grade, it complies with the following quality standards:

- DIN-51524 Part 3 HVLP
- ISO 6743/4 HVLP
- ISO 11158
- AFNOR NFE 48603 HV
- Fives Cincinnati: P-68 (ISO 32); P-69 (ISO 68); P-70 (ISO 46)
- Manuli Hydraulics (ISO 46)\*

\* Formal approval

A safety data sheet is available on request.

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Technical data sheet for Lubricants. Revision 6. July 2020.

## Technical specifications

	UNIT	METHOD	VALUE			
ISO Viscosity Grade			<b>32</b>	<b>46</b>	<b>68</b>	<b>100</b>
Viscosity at 40 °C	cSt	ASTM D 445	32	46	68	100
Viscosity at 100 °C	cSt	ASTM D 445	6.5	8.3	11.0	14.5
Viscosity index		ASTM D 2270	155	155	155	155
Density at 15 °C	g/cm <sup>3</sup>	ASTM D 4052	0.868	0.874	0.878	0.882
Pour point	°C	ASTM D 97	-39	-39	-36	-36
Flash point	°C	ASTM D 92	220	226	242	250
FZG, step, min.	°C	DIN 51354	11	11	11	11
Four balls, scar diameter	mm	ASTM D 4172	0.32	0.32	0.32	0.32
Water separability	min	ASTM D 1401	<25	<30	<45	<45
TAN	mgKOH/g	ASTM D 664	0.4	0.4	0.4	0.4
Resistance to rust (Met. A)		ASTM D 2272	Pass	Pass	Pass	Pass

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

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