



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

- 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.
- 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).

Quality levels, approvals and recommendations

- AFNOR NF ISO 11158 HV
 - DIN 51524-HVLP
 - FIVES CINCINNATI P-68 (32)
 - FIVES CINCINNATI P-69 (68)
 - FIVES CINCINNATI P-70 (46)
 - ISO 6743/4 HV, 11158 HV
 - MANULI Hydraulics (46)*
 - NEGRI BOSSI ELEOS, eCANBIO JANUS Y VESTA series (46)*
 - VOITH Turbo Variable Speed Drives (32)*
- *Formal approval



Technical specifications

	UNIT	METHOD	VALUE			
ISO Viscosity Grade			32	46	68	100
Density at 15 °C	g/cm3	ASTM D4052	0.873	0.876	0.882	0.882
Kinematic viscosity at 40 °C	cSt	ASTM D445	32	46	68	100
Kinematic viscosity at 100 °C	cSt	ASTM D445	6.1	7.9	10.4	14.8
Viscosity index	-	ASTM D2270	141	143	143	143
Flash point, open cup	°C	ASTM D92	220	226	242	250
Pour point	°C	ASTM D97	-39	-39	-36	-36
FZG (A/8,3/90): Failure load stage	-	ISO 14635	11	11	11	11
4 Ball wear, print diameter (40 kg)	mm	ASTM D2266	0.32	0.32	0.32	0.32
Rust, method A	-	ASTM D665	Pass	Pass	Pass	Pass
TAN	mg KOH/g	ASTM D664	0.4	0.4	0.4	0.4
Water separability at 54 °C	min	ASTM D1401	<25	<30	<45	<45

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