

# EQUIVIS ZS



Hydraulic oil



High viscosity index anti-wear hydraulic oils.

## APPLICATIONS

### Hydraulic systems

- **EQUIVIS ZS** range is recommended for all kind of hydraulic systems operating under high pressure (limit as indicated by the pump manufacturer) and high temperature.
  - Lubricants especially suitable for hydraulic systems working under extreme temperature variations and equipment operating outside : easy start up at low temperature and regular operating in all seasons : civil engineering, agriculture, marine, transport and other industrial applications.

## SPECIFICATIONS

### International specifications

- AFNOR NF E 48-603 HV
- ISO 6743/4 HV
- ISO 11158 HV
- DIN 51524 P3 HVLP
- VICKERS M-2950S, -I-286
- ZF-TE-ML 07H

## ADVANTAGES

### Long equipment life time High operating reliability

- High Viscosity Index
- Good shear stability
- Superior thermal stability avoiding the formation of sludge even at high temperatures
- Very good oxidation stability ensuring a long service life of the fluid
- High protection against wear ensuring maximum equipment life
- Excellent hydrolytic stability avoiding filter blocking
- Excellent protection against rust and corrosion
- Good antifoam and air release properties
- Very low pour point
- Good demulsibility ensuring rapid water separation

TYPICAL CHARACTERISTICS	METHODS	UNITS	EQUIVIS ZS					
			15	22	32	46	68	100
Appearance (visual)	Visual	-	Clear liquid					
Density at 15 °C	ISO 3675	kg/m <sup>3</sup>	858	861	870	874	882	885
Kinematic Viscosity at 40°C	ISO 3104	mm <sup>2</sup> /s	15	22	32	46	68	100
Kinematic Viscosity at 100°C	ISO 3104	mm <sup>2</sup> /s	3.9	4.9	6.4	8.2	11.0	14.5
Viscosity index	ISO 2909	-	164	160	155	155	154	150
Cleveland flash point	ISO 2592	°C	174	202	208	215	220	230
Pour point	ISO 3016	°C	- 42	- 42	- 39	- 39	- 36	- 36
FZG A/8,3/90	DIN 51354	stage	-	-	10	11	11	-
Shear resistance 250 cycles	DIN 51382	%	-	-	3	5	8	-
Viscosity loss at 40°C			-	-	3	5	8	-

Above characteristics are mean values and given as information

**TOTAL LUBRIFIANTS**  
**Industrie & Spécialités**  
11-12-2021 **supersedes** 09-12-2019)  
EQUIVIS ZS  
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This lubricant used as recommended and for the application for which it has been designed does not present any particular risk  
A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial advisor or downloaded from  
[www.quickfds.com](http://www.quickfds.com)

