

# 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

- Very high viscosity index.
- Good shear stability.
- Superior thermal stability avoiding the formation of sludge even at high temperature.
- Very good oxidation stability ensuring a long service life of the fluid.
- High protection against wear insuring maximum equipment life.
- Excellent hydrolytic stability avoiding filter blocking.
- Remarkable filterability even in the presence of water.
- Excellent protection against rust and corrosion.
- Good anti-foam and air release properties by using silicon free components.
- 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	3.7	5.1	6.5	8.4	11.2	15.6
Viscosity index	ISO 2909	-	151	164	160	161	161	165
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								

Above characteristics are mean values and given as information.

TOTAL LUBRIFIANTS  
Industrie & Spécialités  
09-12-2019 (supersedes 20-03-2013)  
EQUIVIS ZS

1/1

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 adviser or down loaded from [www.quick-fds.com](http://www.quick-fds.com).

