

# EQUIVIS ZS



LUBRICATION



**TOTAL**

## High Viscosity Index/Multigrade Anti-Wear Hydraulic Oil.

### APPLICATIONS

Hydraulic systems.

- **EQUIVIS ZS** oils are recommended for all types of hydraulic systems operating under high pressure (limit as indicated by the pump manufacturer) and high temperature (up to 100°C in hot points).
- **EQUIVIS ZS** oils have been specifically designed to be used in all types of hydraulic pumps and motors that require the use of anti-wear hydraulic oils. These fluids are suitable for hydraulic systems working under extreme temperature variations and equipment operating outside: easy start up at low temperature (-30°C) and regular operating in all seasons: civil engineering, agriculture, marine, transport, and other industrial applications.

### SPECIFICATIONS

International specifications.

- AFNOR NF E 48-603 HV
- VICKERS I-286-S, M-2950-S
- ISO 6743/4 CATEGORY HV
- CINCINNATI MACHINE (MAG) P68, P69, P70
- DIN 51524 PART 3 CATEGORY HVLP

### ADVANTAGES

Long equipment life and high operating reliability.

- Very high viscosity index.
- Excellent shear stability.
- Superior thermal stability avoiding the formation of sludge even at high temperature.
- Good compatibility with elastomers and seals.
- Excellent water/oil demulsification properties.
- Very low pour point.
- Excellent anti-foaming (silicon free), anti-corrosion, and anti-oxidation properties.
- High Dielectric property

TYPICAL CHARACTERISTICS	METHODS	EQUIVIS ZS					
		15	22	32	46	68	100
Equivalent SAE Grade	SAE J 300	0W20	5W20	5W20	5W20	5W30	10W50
Viscosity at 40°C, cSt	ASTM D 445	15.0	22.0	32.0	46.0	68.0	100.0
Viscosity at 100°C, cSt	ASTM D 445	3.7	5.1	6.5	8.4	11.2	15.6
Viscosity Index	ASTM D 2270	151	164	160	161	161	165
Density @ 60°F, lbs./gal.	ASTM D 1298	7.16	7.18	7.21	7.24	7.28	7.29
Specific Gravity @ 60/60°F	ASTM D 1298	0.858	0.860	0.864	0.868	0.872	0.874
Pour Point, °C	ASTM D 97	-42	-42	-39	-39	-36	-36
Flash Point, COC, °F	ASTM D 92	345	395	405	415	425	445
Dielectric strength	ASTM D 877	40	40	45	45	45	45
Copper Strip Corrosion	ASTM D 130	1B	1B	1B	1B	1B	1B
4 Ball Wear Test, mm (75°C, 40kg, 1 hr@1200rpm)	ASTM D 2266	0.45	0.45	0.45	0.45	0.45	0.45
Oxidation, hrs.	ASTM D 943	--	--	5000	5000	5000	5000

## TOTAL Specialties USA, Inc.

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