

# AZOLLA ZS



Hydraulic oil



Very high performance anti-wear hydraulic oils.

## APPLICATIONS

### Hydraulic circuits

- Designed for use in all kind of hydraulic systems running under the most difficult conditions, such as in machine tools, mould injection machines, presses and other industrial or mobile equipment.
- Also used in many other applications, where an universal high performance anti-wear lubricant is the first choice : low charged gears, sliding and roller bearings, air compressors, servo-motors and control systems equipped with fine filtration systems.

## SPECIFICATIONS

### International specifications

- AFNOR NF E 48-603 HM
- ISO 6743/4 HM
- DIN 51524 P2 HLP
- CINCINNATI MILACRON P68, P69, P70

### OEM

- VICKERS M-2950S, -I-286
- DENISON HF0, HF1, HF2 (T6H20C)

## ADVANTAGES

### Long equipment life time

- High protection against wear insuring maximum equipment life.
- Superior thermal stability avoiding formation of sludge even at high temperature.
- Very good oxidation stability ensuring a long service life of the fluid.
- Remarkable filterability even in the presence of water.

### High operating reliability

- Excellent hydrolytic stability avoiding filter blocking.
- Excellent protection against rust and corrosion.
- Good anti-foam and air release properties by using **silicon free** components.
- Good demulsibility ensuring rapid water separation
- Reduced maintenance and operating costs.

TYPICAL CHARACTERISTICS	METHODS	UNITS	AZOLLA ZS						
			10	22	32	46	68	100	150
Appearance (visual)	Internal	-	Clear liquid						
Density at 15 °C	ISO 3675	kg/m <sup>3</sup>	846	866	875	880	884	888	892
Viscosity at 40°C	ISO 3104	mm <sup>2</sup> /s	10	22	32	46	68	100	150
Viscosity at 100°C	ISO 3104	mm <sup>2</sup> /s	2.6	4.4	5.4	6.8	8.7	11.2	14.5
Viscosity index	ISO 2909	-	100	102	102	100	100	100	97
Cleveland flash point	ISO 2592	°C	170	221	227	232	242	254	268
Pour point	ISO 3016	°C	- 33	- 30	- 27	- 27	- 21	- 18	- 18
Filterability 0.8 µ without water	NF E 48-690	Index (IF)	1	1	1	1.02	1.01	1.05	1.05
Filterability 0.8 µ with water	NF E 48-691	Index (IF)			1.5	1.5	1.5		

Above characteristics are mean values given as an information.

## TOTAL LUBRIFIANTS

### Industrie & Spécialités

17-10-2011 (supersedes 14-02-2011)

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