

# 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

### OEM

- AFNOR NF E 48-603 HM
- ISO 6743/4 HM
- DIN 51524 P2 HLP
- CINCINNATI MILACRON P68, P69, P70
- VICKERS M-2950S, -I-286
- DENISON HF0, HF1, HF2 (T6H20C)
- ZF-TE-ML 07H

## ADVANTAGES

### Long equipment life time

### High operating reliability

- 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.
- 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>	830	846	852	856	862	866	876
Viscosity at 40°C	ISO 3104	mm <sup>2</sup> /s	10	22	32	47	68	100	150
Viscosity at 100°C	ISO 3104	mm <sup>2</sup> /s	2.76	4.5	5.65	7.24	9.26	11.9	15.34
Viscosity index	ISO 2909	-	116	115	115	113	110	108	103
Cleveland flash point	ISO 2592	°C	165	221	227	258	260	264	268
Pour point	ISO 3016	°C	- 51	- 45	- 42	- 36	- 36	- 33	- 33
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

06-10-2020 (supersedes 29-01-2020)

AZOLLA 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).