

# Azolla AF

Premium anti-wear hydraulic fluid, without zinc, with outstanding mechanical properties

## APPLICATIONS

All types of hydraulic circuits. Hydraulic pumps and presses.

- Hydraulic systems operating under high pressure and/or high temperature conditions.
- High pressure vane, piston, or gear pumps
- Sensitive hydraulic circuits requiring perfect fluid filterability, such as plastic injection molding machines.
- Lubrication of circuits in various industrial sectors such as food industries, paper mills, steel industries.
- Any application where a high-performance anti-wear hydraulic oil is required: plain and roller bearings, reducers under high load.

## SPECIFICATIONS

- ISO 6743-4 HM
- ISO 11158 HM
- DIN 51524-2 HLP
- AIST 127
- SAE MS 1004
- GM LS-2

## ADVANTAGES

- Anti-wear properties guaranteeing the protection of mechanical components.
- Remarkable resistance to oxidation and thermal stability: longer service life of the oil and longer oil change intervals.
- Excellent filterability with or without the presence of water.
- Enhanced anti-rust and anti-corrosion properties for optimum protection of circuit components.
- Very good behavior with respect to air: rapid deaeration and low tendency to foam.

## APPROVALS

- Bosch Rexroth RE 90 245
- EATON E-FDGN-TB002-E
- Parker Denison HF0, HF1, HF2.

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 at [ms-sds.totalenergies.com](https://ms-sds.totalenergies.com)

## TYPICAL CHARACTERISTICS

Properties	Units	Standards	Azolla AF				
			22	32	46	68	100
Density at 15°C	kg/m <sup>3</sup>	ASTM D4052	854	858	862	865	861
Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	22	32	46	68	100
Pour point	°C	ASTMD97	-42	-40	-38	-36	-33
Viscosity index	-	ASTM D2270	110	112	112	110	100
FZG A/8, 3/90	Stage	DIN 51354-2	-	12	12	12	>12
Foaming seq1	mL/mL	DIN 51566	<30/0	<30/0	<30/0	<30/0	<30/0
Open cup Flash point	°C	ASTM D92	221	224	238	260	263

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