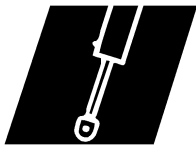


AZOLLA DZF



Hydraulic oil



Detergent anti-wear hydraulic oils.

APPLICATIONS

Hydraulic circuits

- Any hydraulic circuits where significant amounts of water are unavoidably introduced and when it is impossible to drain off the water (for instance on circuits that work around the clock).
- Any hydraulic circuits working under loaded conditions : lubrication of stamping presses for example (Müller Weingarten approval).
- Any hydraulic circuits subjected to high levels of pollution.

SPECIFICATIONS

International specifications

O.E.M.

- ISO 6743-4 HM
- DIN 51 524 p 2, HLP-D (Detergent properties)
- MAN N 698 H-LPD
- MÜLLER WEINGARTEN

ADVANTAGES

Detergent properties

Excellent anti - wear properties

- Detergent characteristics allowing the fluid to absorb large quantities of water while preserving its properties.
- Detergent/Dispersant characteristics keeping the hydraulic system clean.
- High thermal stability giving the fluid good resistance at high operating temperatures.
- Excellent antiwear capacity ensuring an extended life time of product.
- Excellent level of resistance to foaming (silicon free defoamer) together with rapid air release.
- Specially formulated to provide good filterability even in presence of high water content.
- Protection against rust and corrosion.

TYPICAL CHARACTERISTICS	METHODS	UNITS	AZOLLA DZF					
			10	22	32	46	68	100
Density at 15 °C	ISO 3104	kg/m ³	852	866	875	880	882	888
Viscosity at 40°C	ISO 3104	mm ² /s	10	22	32	46	68	100
Viscosity at 100°C	ISO 3104	mm ² /s	2.6	4.4	5.5	6.9	8.6	11.3
Viscosity index	ISO 2909	-	101	103	102	106	100	98
Cleveland flash point OC	ISO 2592	°C	164	202	210	215	230	240
Pour point	ISO 3016	°C	- 39	- 36	- 33	- 33	- 30	- 24
FZG (A/8, 3/90) Fail Stage	DIN 51 354	Stage	-	-	12	12	12	-
Brügger EP test	-	N/mm ²	-	-	-	58	-	-

Above characteristics are mean values given as an information.

TOTAL LUBRIFIANTS
Industrie & Spécialités
23-07-2014 (supersedes) 17-06-2013
AZOLLA DZF
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.