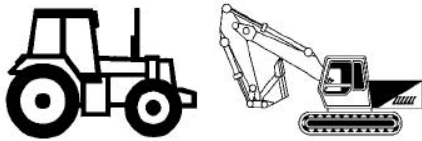




ELFOLNA DS 32-46-68



High performance hydraulic oils.

APPLICATIONS

Hydraulic circuits

Jacks

Moving parts

- All hydraulic systems operating under conditions of:
 - high pressure,
 - high temperature.
- Moving parts in very severe conditions
 - journals at high temperature,
 - precision machinery.
- All machinery not requiring an "extreme-pressure" oil.

PERFORMANCE

Category HM

- AFNOR NF E 48-603 HM
- ISO 6743/4 HM
- DIN 51524 P2 HLP
- CINCINNATI MILACRON P68, P69, P70
- DENISON HF0-HF2
- VICKERS M-2950S, -I-286

CUSTOMER BENEFITS

Long life of components

High reliability

- Very good protection against wear
- Excellent thermal stability with outstanding oxidation resistance.
- Excellent protection against corrosion, rust and foaming (without silicone).
- No air retention and excellent de-emulsification properties.
- Very good stability to hydrolysis and very good filtrability with or without water.
- Perfectly inert to seals.

CHARACTERISTICS

ELFOLNA DS	METHODS	UNITS	32	46	68
Density at 15 °C	ISO 3675	kg/m ³	870	877	884
Viscosity at 40 °C	ISO 3104	mm ² /s	32	46	68
Viscosity at 100 °C	ISO 3104	mm ² /s	5,4	6,8	8,7
Viscosity number	ISO 2909	-	102	100	100
Cleveland flash point	ISO 2592	°C	210	230	240
Pour Point	ISO 3016	°C	- 27	- 24	- 21

The typical characteristics mentioned represent mean values

TOTAL LUBRIFIANTS
 16, rue de la République
 92800 PUTEAUX
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ELFOLNA DS
 JANUARY 2002
 N°MPR/01/02



This lubricant used in accordance with our recommendations and for the application for which it is intended does not represent a special hazard.
 A safety data file conforming to the requirements of current E.U. legislation is available from your local trade consultant.