HIDROFLUX EP

INDUSTRY

LUBRICANTS

Description

The lubricants in this range are produced with carefully selected bases and additives to give them the characteristics of hydraulic oils for general use.

Recommended uses

These oils are very suitable for most hydraulic circuits, including those which require special antiwear protection, in industry as well as automotive (dumper trucks, public works machinery, etc.) regardless of the type of pump they are equipped with and the pressures at which they work.

Properties

- Resistance to oxidation, ageing and sludge formation
- Low freezing point.
- High viscosity rate.
- Compatible with joints.
- Good anti-foam properties.
- Notable antiwear properties
- Easy water separation.

Quality level

- DIN-51524 Part 2 HLP.
- Eaton Vickers I-286-S.
- AFNOR NF E 48-603 HL, H.
- AFNOR NF E 48-690 and 48-691.

Technical characteristics

	UNIT	METHOD	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE
ISO Grade			**22**	**32**	**46**	**68**	**100**	**150**
Viscosity at 100ºC	cSt	ASTM D 445	4.3	5.4	6.7	8.6	11.1	14.5
Viscosity at 40ºC	cSt	ASTM D 445	22	32	46	68	100	150
Viscosity rate		ASTM D 2270	103	104	97	97	97	96
Density @ 15ºC	g/cm^3	ASTM D 4052	0.865	0.878	0.876	0.882	0.887	0,893
Flash point	ºC	ASTM D 92	200	215	220	230	245	250
Pour point	ºC	ASTM D 97	-24	-24	-24	-24	-21	-21
FZG, damage step		DIN 51354	--	11	11	11	11	11
4B wear, scar diameter	mm	ASTM D 4172	0.50	0.50	0.50	0,45	0.45	0.45
Res. Oxidation, NN at 1500h	mgKOH /g	ASTM D 943	< 2	< 2	< 2	< 2	< 2	< 2
Disemulsion ([1] 54ºC/[2]82ºC)	min	ASTM D 1401	<20[1]	<20[1]	<20[1]	<30[1]	<30[2]	<30[2]
Copper corrosion, 3 hr 100ºC		ASTM D 130	1b	1b	1b	1b	1b	1b

Presentations

ISO grades:22 Sold by the litre and 875 kg container.
ISO grades 32 and 100: Sold by the litre and 185 kg drums.
ISO grades 46 and 68. Sold by the litre, 875 kg containers, 185 kg and 18 kg drums.
ISO grades 150: 185 kg drums.

Hazard identification

This product is not classified as toxic or hazardous under current legislation.

Handling

Minimum precautions should be taken to avoid prolonged contact with the skin. The use of gloves, visors or glasses is recommended to avoid splashes.

Health and Safety Hazards

Inhalation: Given that it is not a particularly volatile product, the risk of inhalation is minimal.
Ingestion: Do not induce vomiting. Provide water. Seek medical advice.
Contact with the skin: Wash with plenty of water and soap.
Eyes: Wash thoroughly with water.
General measures: Seek medical advice.

Fire-fighting measures

No special measures required.
Fire-extinguishing measures: Foams, dry chemicals, CO2, water spray. Do not apply the jet of water directly as this could cause the product to disperse.

Environmental precautions

Danger of physical pollution if spilt (water, coastlines, soil, etc.) due to its floatability and oily consistency that may harm flora and fauna on contact. Avoid material getting into water outlets.
Decontamination and cleaning: Treat like an accidental oil spill. Prevent dispersion using mechanical barriers and remove by physical or chemical means.

Emergency phone number. National Toxicology Institute 915 620 420
A safety information file is available on request.

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901 111 999

Unless otherwise indicated, the figures cited in technical characteristics should be considered typical.

Technical record for Lubricants. Review 4 December 2008.