



# TELEX HVLP

INDUSTRY

## Description

The base oils used to manufacture this group of products have been carefully refined to obtain a high viscosity index and excellent resistance to oxidation. Its constituent additives, as well as enhancing these natural characteristics, provide this lubricant with exceptional anti-wear properties and temperature performance.

## Recommended uses

These oils are specially designed for hydraulic circuits subjected to sudden temperature changes in which oils are also required to have greater anti-wear properties. They are specifically suited to hydraulic circuits exposed to the elements or with low working temperatures, as well as equipment requiring viscosity variations that are significantly lower than in standard fluids, and hydraulic systems used at sea (watertight doors, capstans and windlasses, stabilisers, etc.). Excellent performance in hydraulic systems for all kinds of public works machinery.

## Properties

- High resistance to oxidation, ageing and sludge formation.
- Outstanding anti-wear properties.
- Very high viscosity index.
- Compatible with the joints habitually used in hydraulic circuits.
- Excellent water separation.
- Very good anti-foaming qualities.
- Effective protection of metals against corrosion.
- Great load-bearing capacity.

## Quality level

- DIN-51524 Part 3 HVLP.
- Eaton Vickers I-286-S and M-2950-S.
- ISO 6743/4 – HV.
- BOSCH REXROTH RE 90 220
- Cincinnati Lamb P-68 (ISO 32); P-69 (ISO-68); P-70 (ISO-46).
- AFNOR NF E 48-690 and 48-691.
- AFNOR NF E 48-603 HV.

## Technical characteristics

	UNIT	METHOD	15	22	32	46	68
ISO Viscosity Grade			15	22	32	46	68
Viscosity at 100°C	cSt	ASTM D 445	4.0	4.9	6.2	8.2	11.3
Viscosity at 40°C	cSt	ASTM D 445	15	22	32	46	68
Viscosity index		ASTM D 2270	145	150	150	150	150
Density at 15°C	g/cm <sup>3</sup>	ASTM D 4052	0.859	0.864	0.868	0.871	0.879
Flash point	°C	ASTM D 92	195	205	205	210	230
Pour point	°C	ASTM D 97	-45	-39	-33	-33	-33
Water separability at 54°C	min	ASTM D 1401	<25	<25	<25	<30	<45
Rust resistance, A and B.		ASTM D 665	Pass	Pass	Pass	Pass	Pass
Air release at 50°C	min	ASTM D 3427	<1	<2	<2	< 4	< 5
Copper corrosion, 3 hours at 100°C		ASTM D 130	1b	1b	1b	1b	1b
TAN	mg KOH/g	ASTM D 664	0.5	0.5	0.38	0.38	0.38
Oxidation, acid number at 2000 hrs	mg KOH/g	ASTM D 943	2 max.	2 max.	2 max.	2 max.	2 max.
FZG, damage stage		DIN 51354	11	11	12	12	12

## ■ Hazard identification

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

## ■ Handling

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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

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**Inhalation:** As this product has low volatility, the risk due to inhalation is minimal.

**Ingestion:** Do not induce vomiting. Drink water. Seek medical advice.

**Contact with the skin:** Wash with plenty of soap and water.

**Eyes:** Wash thoroughly with water.

**General measures:** Seek medical advice.

## ■ Fire-fighting measures

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No special measures required.

**Fire control:** Foams, dry chemicals, CO<sub>2</sub>, water spray. Do not apply the jet of water directly as this may cause the product to disperse.

## ■ Environmental precautions

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Danger of physical pollution if spilt (watercourses, coastlines, soils, etc.) due to its floatability and oily consistency, which may harm flora and fauna on contact. Prevent the material from entering the water supply.

**Decontamination and cleaning:** Treat as an accidental oil spill. Prevent dispersion using mechanical barriers and remove with physical or chemical means.

A safety data file is available on request.

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

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Technical data sheet for Lubricants. Review 7. April 2012.