

# LIBRA HIDRÁULICO HLP



INDUSTRY

## Lubricants

### Description

The lubricants of this range are specially designed for use in hydraulic circuits requiring fluids with anti-wear properties. They are manufactured from a mixture of selected mineral bases and high-quality regenerated bases, carefully treated and purified, and specific additives have been selected to enhance their anti-wear properties.

These new oils, in addition to being environmentally friendly, offer the same quality as any other HLP category lubricant on the market. Moving forward in Repsol's commitment with sustainable development, this product range complies with the waste management hierarchy and is the link that completes the ecological chain of manufacturing, use, collection and recovery of used oils.

These oils are specially suitable for most hydraulic circuits, including those requiring special anti-wear protection, both in industry and motoring (dumpers, civil works machines, etc.), regardless of the type of pump with which they are equipped and pressures under which they work.

### Properties

- Resistance to oxidation, ageing and sludge formation
- Low pour point
- High viscosity index
- Compatible with joints
- Good anti-foam properties
- Marked anti-wear properties
- Easy water separation

### Quality levels

- DIN 51524 Part 2 HLP
- ISO 6743/4 HM

### Technical specifications

	UNIT	METHOD	VALUE		
ISO Grade			<b>32</b>	<b>46</b>	<b>68</b>
Viscosity at 100 °C	cSt	ASTM D 445	5.4	6.9	8.6
Viscosity at 40 °C	cSt	ASTM D 445	32	46	68
Viscosity index	-	ASTM D 2270	95 min.	95 min.	95 min.
Flash point	°C	ASTM D 92	205 min.	205 min.	210 min.
Pour point	°C	ASTM D 97	- 21	-21	- 18
Copper corrosion 3 h at 100 °C	-	ASTM D 130	1a	1a	1a
De-emulsification.	min	ASTM D 1401	20	20	20
Foams, formation	mL	ASTM D 892	100/50/100	100/50/100	100/50/100
Foams, stability	mL	ASTM D 892	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0
FZG, damage stage	-	DIN 51354	11	11	11

A safety data sheet is available on request.

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Technical data sheet for Lubricants. Revision 2 October 2013.