



# MAKER HYDROFLUX EP

## Description

The lubricants included in this range are manufactured using selected and carefully additivated bases to make them hydraulic oils for general use.

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, approvals and recommendations

- AFNOR: NF ISO 11158 HM, 48-690, 48-691
- DIN: 51524-HLP
- ISO: 6743/4 HM, 11158

## Technical specifications

|  | UNIT     | METHOD     | VALUE  |        |        |        |        |
|--|----------|------------|--------|--------|--------|--------|--------|
| ISO Viscosity Grade                              |          |            | 22     | 32     | 46     | 68     | 100    |
| Viscosity at 100 °C                              | cSt      | ASTM D445  | 4.3    | 5.4    | 6.7    | 8.6    | 11.1   |
| Viscosity at 40 °C                               | cSt      | ASTM D445  | 22     | 32     | 46     | 68     | 100    |
| Viscosity index                                  | -        | ASTM D2270 | 103    | 104    | 97     | 97     | 97     |
| Density at 15 °C                                 | g/cm3    | ASTM D4052 | 0.865  | 0.863  | 0.872  | 0.880  | 0.888  |
| Flash point                                      | °C       | ASTM D92   | 210    | 226    | 231    | 246    | 264    |
| Pour point                                       | °C       | ASTM D97   | -24    | -24    | -24    | -24    | -21    |
| FZG, damage stage                                | -        | DIN 51354  | -      | 11     | 11     | 11     | 11     |
| Four ball wear, scar diameter (1h, 40 kg, 75 °C) | mm       | ASTM D4172 | 0.50   | 0.50   | 0.45   | 0.45   | 0.45   |
| Res. to oxidation, NN after 1 500 hrs            | mgKO H/g | ASTM D943  | <2     | <2     | <2     | <2     | <2     |
| Water separability ((1) 54°C/(2) 82°C)           | mín      | ASTM D1401 | <20(1) | <20(1) | <20(1) | <30(1) | <30(2) |
| Corrosion Cu, 3hrs 100 °C                        | -        | ASTM D130  | 1b     | 1b     | 1b     | 1b     | 1b     |

The above mentioned characteristics are typical values and should not be considered product specifications.