



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 HM



Technical specifications

	UNIT	METHOD	VALUE			
ISO Viscosity Grade			22	32	46	68
Density at 15 °C	g/cm3	ASTM D4052	0.865	0.863	0.872	0.880
Kinematic viscosity at 40 °C	cSt	ASTM D445	22	32	46	68
Kinematic viscosity at 100 °C	cSt	ASTM D445	4.3	5.4	6.7	8.6
Viscosity index	-	ASTM D2270	103	104	97	97
Flash point, open cup	°C	ASTM D92	210	226	231	246
Pour point	°C	ASTM D97	-24	-24	-24	-24
FZG (A/8,3/90): Failure load stage	-	ISO 14635	-	11	11	11
4 Ball wear, print diameter (40 kg)	mm	ASTM D2266	0.50	0.50	0.45	0.45
Corrosion Cu, 3hrs 100 °C	-	ASTM D130	1b	1b	1b	1b
Res. to oxidation, NN @1500h	mg KOH/g	ASTM D943	≤2	≤2	≤2	≤2
RPVOT	min	ASTM D2272	400	400	400	400
TAN	mg KOH/g	ASTM D664	0.38	0.38	0.38	0.38
Water separability at 54 °C	min	ASTM D1401	≤20	≤20	≤20	≤30
Water separability at 82 °C	min	ASTM D1401	-	-	-	-

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