

## Hydraulic oils ISO L-HM

# FAMHIDO<sup>®</sup> HD ZINC FREE

FAMHIDO<sup>®</sup> HD ZINC FREE oils are formulated for a wide range of applications and to meet special requirements for oils of this quality. They are manufactured from solvent neutral base oils and ashless additives (zinc-free), whose performance enables long and reliable operation of the hydraulic system in low and high temperatures and high loads, enabling excellent power transmission and motion.

### ADVANTAGES

- High oxidation stability allows oxidation resistance in the presence of water, air and copper;
- Carefully selected additives give this oil extraordinary antiwear properties and allow it to be efficient in a variety of operating conditions, by extending their life because they do not create sludge and deposits;
- Efficient anticorrosion properties of non-ferrous metals (copper, brass and bronze);
- Excellent hydrolytic stability in the presence of moisture provides protection against rust and corrosion;
- Excellent filtration characteristics, which are one of the main requirements of the manufacturers of modern hydraulic systems. They enable efficient oil filtration even under the most severe exploitation conditions and prevent the harmful effect of the most common contaminants such as water and calcium, which cause filter clogging;
- Remarkable demulsive properties that allow quick water separation in the tank if it penetrates into the hydraulic system and they prevent the creation of harmful emulsion and consequent damages to the oil pump and the system;
- Fast air separation and absence of oil foaming ensure impeccable operation of hydraulic devices and prevent the appearance of the cavitation of the oil pump thus taking care of the hydraulic system and oil performance;
- Low friction coefficient allows excellent lubrication with extremely low friction in hydraulic systems that operate at low and high speeds;
- Neutrality to standard seals and compatibility with most pumps;
- Multifunctionality, i.e. use for other purposes in the industry.
- They do not contain lead, zinc and chlorine, thus their toxicity is reduced and they are environmentally acceptable.

### QUALITY LEVEL

ISO 6743-4	ASTM D 6158 HM	Eaton Vickers I-286-S
ISO 11 158 HM	Denison HF-1 / HF-2	Eaton Vickers M-2950-S
DIN 51524/2 (HLP)	SEB 181 222	VDMA 24318
AFNOR NF E 48 603 HM	AIST 127, 136	
SIS SS 155434		

### APPLICATION

FAMHIDO<sup>®</sup> HD ZINC FREE are multipurpose oils that are used as hydraulic fluids for the transmission of power and motion in all types of hydraulic systems under normal operating temperatures, as well as for the lubrication of bearings, gears and other circuits in various circulation systems where ashless oil is required. It can also be used for the lubrication of all types of piston and rotary compressors.

## TYPICAL CHARACTERISTICS

	FAMHIDO® HD ZINC FREE						METHOD
	10	22	32	46	68	100	
Density at 15°C, g/ cm <sup>3</sup>	0,86	0,87	0,87	0,88	0,88	0,89	SRPS EN ISO 3675
Kinematic viscosity at 40°C, mm <sup>2</sup> /s	15	22	32	46	68	100	SRPS ISO 3104
Kinematic viscosity at 100°C, mm <sup>2</sup> /s	3.5	4,3	5,5	7,0	9,0	11,0	SRPS ISO 3104
Viscosity index	100	100	100	95	95	95	SRPS ISO 2909
Flash point, °C	180	190	200	210	220	220	SRPS EN ISO 2592
Pour point, °C	-33	-27	-27	-24	-21	-21	SRPS ISO 3016
Cu corrosion, 3h/100°C, degree	1a						SRPS EN ISO 2160

## STORAGE

Store in covered area. If stored outdoors, it is necessary to place the drums in a horizontal position to prevent the accumulation of water on the surface of the drum. Do not store at elevated temperatures or in locations exposed to direct sunlight.

All necessary instructions can be found in the product SDS. It contains the details of possible hazards, warnings and first aid measures, as well as the impact on the environment and the necessary measures for the storage and handling.

## PACKING

Drums 180kg, plastic containers 20L.

Data are orientational, manufacturer reserves the right to make changes in order to improve product quality.

