

## Hydraulic oils ISO L-HM

# FAMHIDO<sup>®</sup> HD

FAMHIDO<sup>®</sup> HD oils are formulated for a wide range of applications and to meet various requirements in the lubrication of hydraulic systems. They are manufactured from solvent-neutral base oils and low-zinc-content additives whose performance enable long and reliable operation of the hydraulic system, allowing for excellent transmission of power and motion with improved antiwear properties.

### 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, including severe working conditions followed by heavy loads;
- 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, enable efficient oil filtration even under the most severe conditions and prevent the harmful effect of the most common contaminants such as water and calcium, which cause clogging of the filters;
- 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 by 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.

### QUALITY LEVEL

ISO 6743-4	Parker Hannifin (Denison) HF-0	Eaton Brochure 03-401-2010
ISO 11 158 HM	Parker Hannifin (Denison) HF-1 / HF-2	Eaton Vickers I-286-S
DIN 51524/2 (HLP)	MAG IAS P-68 (VG 32)	Eaton Vickers M-2950-S
AFNOR NF E 48 603 HM	MAG IAS P-70 (VG 46)	AIST (US Steel) 126, 127, 136
ASTM D 6158 HM	MAG IAS P-69 (VG 68)	

### APPLICATION

FAMHIDO<sup>®</sup> HD oils are applied:

- As hydraulic fluids for the transmission of power and motion in all types of hydraulic systems at normal operating temperatures, as well as for the lubrication of bearings, gears and other assembly blocks in various circulating systems;

- Lower viscosity grade oils can be applied in precision hydraulic systems, for the lubrication of spindles in high speed machine tools, grinding spindles and other precision machines;
- Higher viscosity grade oils are used for the lubrication of circulating systems, gear transmissions, sliding and rolling bearings at elevated operating temperatures (up to 70°C).

#### TYPICAL CHARACTERISTICS

	FAMHIDO® HD											METHOD
	5	10	15	22	32	46	68	100	150	220	320	
Density at 15°C, g/ cm <sup>3</sup>	0.80	0.86	0,87	0,87	0,87	0,88	0,88	0,89	0,89	0,90	0,90	SRPS EN ISO 3675
Kinematic viscosity at 40°C, mm <sup>2</sup> /s	5	10	15	22	32	46	68	100	150	220	320	SRPS ISO 3104
Kinematic viscosity at 100°C, mm <sup>2</sup> /s	1.8	2.7	3,5	4,3	5,5	7,0	9,0	11,0	14,5	19,0	24,0	SRPS ISO 3104
Viscosity index	110	105	100	100	100	95	95	95	90	90	90	SRPS ISO 2909
Flash point, °C	160	170	180	190	200	210	220	220	225	230	235	SRPS EN ISO 2592
Pour point, °C	-39	-36	-33	-30	-30	-24	-24	-24	-21	-21	-18	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, 60L, plastic containers 20L, 10L and 5L.

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