

Hydraulic oils

ISO L-HM

FAMHIDO[®] HD PLUS

FAMHIDO[®] HD PLUS are hydraulic oils formulated for a wide range of applications and to meet various requirements in the lubrication of hydraulic systems. These high viscosity index oils are manufactured from solvent-neutral base oils and new generation additives that provide long-lasting and reliable operation, maintain cleanliness and prevent the formation of deposits and oil laquer on sensitive places of hydraulic systems.

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;
- They prevent the formation of deposits (varnish, glaze) and the formation of polyphosphate film;
- 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	Cincinnati Machine
ISO 11 158 HM	P-68 / P-70 / P-69
DIN 51524/2 (HLP)	Eaton Vickers 35VQ-25
DIN 51524/3 (HVLP)	
Denison HF-0	

APPLICATION

The glaze or varnish appears on hydraulic equipment as the result of polymerization of degraded polyphosphate derivative from additives and base oil oxidation products. It is very sticky and thin layer that

degrades the performances of the hydraulic system. It shortens the life of the equipment: valves, filters, pumps, bearings. The oil flow is more difficult, the wear and friction are increased.

FAMHIDO® HD PLUS is oil used as hydraulic fluid for the transfer of power and motion in all types of hydraulic systems in wider range of operating temperatures, as well as for the lubrication of bearings, gears and other components in various circulation systems. Lower grades are especially suitable for operating at low temperatures. Oil is formulated to prevent the formation of sludge and deposits in the hydraulic system, it keeps the system clean and there are no fine sediments on metal surfaces.



TYPICAL CHARACTERISTICS

	TYPICAL VALUE					METHOD
	VG 32	VG 46	VG 68	VG 100	VG 150	
Density at 15°C, g/ cm ³	0,87	0,88	0,89	0,89	0,89	SRPS EN ISO 3675
Kinematic viscosity at 40°C, mm ² /s	32	46	68	100	150	SRPS ISO 3104
Kinematic viscosity at 100°C, mm ² /s	7.0	9.0	11.3	14.5	18.5	SRPS ISO 3104
Viscosity index	189	180	160	142	139	SRPS ISO 2909
Flash point, °C	200	228	230	235	240	SRPS EN ISO 2592
Pour point, °C	-45	-42	-39	-36	-27	SRPS ISO 3016
Thermal stability -Cincinnati Milacron						
- sludge, mg/100 ml	1.8	1.8	1.8	1.8	1.8	ASTM D 2070
- loss Cu, mg/100 ml	0.2	0.2	0.2	0.2	0.2	

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.