



LUBLAN Series HM

Hydraulic functional fluids HLP

Product Description:

Mineral hydraulic fluids, having detergent and dispersant properties, conforming to the international standard ISO type HM. Formulated with base oils refined paraffinic solvent and additives to prevent oxidation and the formation of foam, to reduce the wear and prevent corrosion.

The HM are mainly used in hydraulic systems of machine tools and machinery for the hot molding of plastics and rubber, in the commands of the clutches and mobile hydraulics. They are especially suitable for machine tools with pneumatic or electromagnetic clutches with oil bath drives. The detergent and dispersant characteristics are prevented by the jam of the valves and clogging of filters in hydraulic systems for molding plastics numerical control machine tools and presses, reducing maintenance interventions and allowing significant efficiency gains. Meet the specification DIN 51524. In particular, the '100 HM (level VCL DIN 51506) is used as crankcase oil in large diesel engines with separate lubrication.

Features and Benefits:

Smooth operation of the moving parts of hydraulic systems and machine tools. Good wetting power that allows one to adjust the sliding seals on hydraulic pistons and connecting rods. Excellent internal protection even in severe operating conditions. Increased durability of the components of the machine operation (valves, filters).

Specifications and Approval:

Exceeds requirements: **DIN 51524 Part 2 HLP, ISO-L-HM**

Typical properties: *LUBLAN Serie HM*

ISO Viscosity Grade	22	32	46	68	100
Viscosity ASTM D-445					
cSt @ 40°C	20 - 24	30 - 34	42,5 - 48	63 - 70	92 - 103
cSt @ 100°C	3,8 - 4,5	5 - 5,9	6,2 - 7,3	8 - 9,4	10,5 - 12
Viscosity Index ASTM D-2270	98	105	100	100	100
Density @ 15°C, Kg/l, ASTM D-1298	0,855	0,860	0,865	0,865	0,885
Pour Point, °C, ASTM D-97	-30	-30	-24	-24	-15
Flash Point, °C, ASTM D-92	210	220	225	230	300
Saponification Value, mgKOH/g, ASTM D-94	1,1	1,1	1,1	1,2	1,4

Health and Safety:

The data related to health, safety and environmental protection are provided in the material safety data sheets.

The above figures are those relating to normal manufacturing tolerances and do not constitute a specification.

Series HM Date Created: 18/01/2013 Last Edit: 17/05/2019

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