

**Quality standard MOL-LUB 50026**

**MOL Hydro HV 46 multigrade hydraulic oil**

**Quality specification**

Characteristics [Unit]	Requirements	Method
Appearance	bright, clear	Visual
Kinematic viscosity at 0 °C [mm <sup>2</sup> /s]	max. 450	MSZ EN ISO 3104:1996
Kinematic viscosity at 40°C [mm <sup>2</sup> /s]	41.4 - 50.6	MSZ EN ISO 3104:1996
Kinematic viscosity at 100 °C [mm <sup>2</sup> /s]	min. 7.5	MSZ EN ISO 3104:1996
Viscosity index	min. 150	MSZ ISO 2909:1999
Pour point [°C]	max. -33	MSZ ISO 3016:1999
Flash point (Cleveland) [°C]	min. 180	MSZ EN ISO 2592:2002
Water content [mass %]	max. 0.025	MSZ EN ISO 9029:1999
Content of mechanical impurities [mass %]	max. 0.005	EN 12662:1999
Foaming characteristics SI		ISO 6247:1998 cor 1:1990
- foaming tendency SI [cm <sup>3</sup> ]	max. 150	ISO 6247:1998 cor 1:1990
- foam stability SI [cm <sup>3</sup> ]	max. 0	ISO 6247:1998 cor 1:1990
Foaming characteristics SII		ISO 6247:1998 cor 1:1990
- foaming tendency SII [cm <sup>3</sup> ]	max. 75	ISO 6247:1998 cor 1:1990
- foam stability SII [cm <sup>3</sup> ]	max. 0	ISO 6247:1998 cor 1:1990
Foaming characteristics SIII		ISO 6247:1998 cor 1:1990
- foaming tendency SIII [cm <sup>3</sup> ]	max. 150	ISO 6247:1998 cor 1:1990
- foam stability SIII [cm <sup>3</sup> ]	max. 0	ISO 6247:1998 cor 1:1990
Rust preventing properties, method "B"	pass	ISO 7120:1987
Copper corrosion (100°C, 3 h) [grade]	max. 1	MSZ EN ISO 2160:2000

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Air release properties at 50°C [min]	max. 10	ISO 9120:1998
Water separability at 54°C		ISO 6614:1994
- separation time at 54 °C [min]	max. 30	ISO 6614:1994
Oxidation stability (TOST)		ISO 4263:1986
- time to 2 mgKOH/g acid number [h]	min. 1000	ISO 4263:1986
Filterability (ISO)		ISO 13357-2:1998
Filterability (ISO) Stage I [%]	max. 80.0	ISO 13357-2:1998
Filterability (ISO) Stage II [%]	max. 60.0	ISO 13357-2:1998
Filterability (ISO, with water)		ISO 13357-1:2002
Filterability (ISO, with water) FI [%]	max. 70.0	ISO 13357-1:2002
Filterability (ISO, with water) FII [%]	max. 50.0	ISO 13357-1:2002
Anti-wear properties (Vane pump method)		ISO 20763:2004
- weight loss of ring [mg]	max. 120	ISO 20763:2004
- weight loss of vanes [mg]	max. 30	ISO 20763:2004
Antiwear properties (FZG)		DIN 51354-2:1990 teil
- failure load stage	min. 10	DIN 51354:1990 2. Teil
Shear stability		CEC L-14-A-88
- viscosity decrease at 40 °C, after 250 cycles [%]	max. 10.0	CEC L-14-A-88

**STORAGE:** storage temperature max. 40°C

Keep away from moisture, direct sunlight or any kind of contaminants.

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