

# Mabanol Helium Hyd HVLP

## High VI Hydraulic Fluids

### Application

Mabanol Helium Hyd HVLP oils are formulated to be used with hydraulic systems which are exposed to extreme temperature fluctuations. This includes the entire range of mobile hydraulic units as well as all stationary units used outdoors (scrap metal presses, lock gates, loading equipment, nautical hydraulics, etc.). The multigrade characteristics of Mabanol Helium Hyd HVLP allow for an extensive reduction in the number of types of hydraulic fluid being stored thus practically removing the danger of the user applying the wrong fluid.

Ordering and storage within the individual operation are much simplified. Mabanol Helium Hyd HVLP can be used everywhere where HLP or HVLP hydraulic fluids are demanded.

### Properties

Mabanol Helium Hyd HVLP oils are mineral based pressure fluids with particularly good viscosity temperature characteristics (high-VI hydraulic fluids / multigrade hydraulic fluids). Paraffinic virgin base oils are used exclusively in their manufacture. These provide maximum efficiency in systems operation, even with extreme temperature fluctuations and when starting hydraulic units at freezing temperatures. Optimal wear, corrosion and oxidation protection properties ensure maximum operational reliability of the hydraulic systems along with increased oil retention times and minimal maintenance costs.

### Standards

- HVLP according to DIN 51524 Part 3
- HV according to ISO 11158

### Recommended for

- ZF TE-ML 04R (only ISO VG 32 / ISO VG 46)
- Arburg (only ISO VG 46)

### Data

### Viscosity Classification

	Test method	Unit	15	32	46	68
Density at 15°C	DIN 51 757	g/cm <sup>3</sup>	0,877	0,867	0,871	0,876
Kin. Viscosity at 40°C	DIN EN ISO 3104	mm <sup>2</sup> /s	15	32,2	45,6	67,9
Kin. Viscosity at 100°C	DIN EN ISO 3104	mm <sup>2</sup> /s	3,7	6,24	8,08	10,8
Viscosity Index (VI)	DIN ISO 2909		146	147	151	150
Flash point COC	DIN ISO 2592	°C	172	210	235	244
Pourpoint	DIN ISO 3016	°C	-42	-33	-39	-39
FZG test A/8, 3/90	DIN ISO 14635	SKS	–	10	12	12

Updated in December 2021

The above values may vary within the commercial limits.

Customs Tariff No.: 2710 1983