

## NISOTEC HIDROL HM ZNF 46

 Hydraulic systems	 Zn free	 Good filterability
 Anti-wear characteristics	 Excellent demulsibility	 Mineral

**NISOTEC HIDROL HM ZNF 46** is a high-performance hydraulic oil developed for use in hydraulic and circulation systems with high-speed, high-pressure piston, vane and gear pumps. It is formulated from high-quality base oils and an advanced additive system without zinc (Zn). It provides a high level of wear protection, oxidation resistance, thermal stability and corrosion protection even for copper-based alloys in severe hydraulic applications such as high-pressure axial piston pumps. It ensures extended oil and filter change intervals and exceptional system cleanliness and reliability.

### Applications:



- Hydraulic and circulation systems that work primarily indoors or outdoors in conditions of relatively constant ambient temperatures
- Wide range of hydraulic systems: industrial equipment, machine tools, hydraulic lifts, various types of lifting platforms, mechanization etc.
- Lightly loaded industrial gears and bearings where medium anti-wear characteristics are required

Characteristics	Advantages
Zinc-free anti-wear additives	Reduced wear on the system's moving parts while ensuring a reduced environmental impact
Excellent demulsibility	Effective protection of systems in which a small amount of water is present and easy separation of a larger amount of water, thus extending the life of the oil and equipment
Excellent thermal and oxidation stability	Reduced build-up of deposits and deposits to extend oil, filter and equipment life
Exceptional protection against rust and corrosion	Prevents the occurrence of corrosion, reduces the negative effects of moisture in the systems and reduces maintenance costs.
Quick release of air and low foaming	It provides efficient hydraulic power transmission and reduces cavitation, thus extending the life of the equipment

**Specification:**

- ISO 6743-4 (L-HM);
- ISO 11158 (L-HM);
- DIN 51524-2 (HLP);
- DENISON HF-0/HF-1/HF-2;
- SPERY VICKERS I-286-S;
- AFNOR NF E 48-603 (HM);
- CINCINNATI MACHINE P 69;
- AIST (US Steel) 127

**Typical characteristics**

Characteristics	Method	NISOTEC HIDROL HM ZNF 46
ISO grade		46
Kinematic viscosity at 40°C, mm <sup>2</sup> /s	ISO 3104	46
Kinematic viscosity at 100°C, mm <sup>2</sup> /s	ISO 3104	6,8
Viscosity Index	ISO 2909	99
Cu strip corrosion, 3h, 100°C	EN ISO 2160	1a
Pour Point, °C	ISO 3016	-27
Flash Point (COC), °C	EN ISO 2592	210
Density at 15°C, kg/m <sup>3</sup>	EN ISO 3675	876

**Health, Safety and Environment**

Information on the safe handling, storage and disposal of the product, as well as information on precautionary measures and potential hazards, effects on human health and the environment can be found in the Product Safety Data Sheet (SDS). Store the product in its original packaging protected from atmospheric influences. Shelf life 5 years from the date of manufacture.

**Available packaging**



10L



20L



205L



1000L