NISOTEC HIDROL HM 46


Hydraulic systems


Stable viscosity under high pressures


Oxidative stability


Good filterability


Mineral


Anti-wear characteristics

NISOTEC HIDROL HM 46 is a high-performance hydraulic oil designed to meet a wide range of stationary hydraulic system requirements. Formulated with high-quality mineral base oils and selected Zn-based additives. Provides excellent anti-wear properties, rust and corrosion protection, oxidation resistance and anti-foaming properties. They are intended for hydraulic systems, which work primarily in a closed space, in conditions of relatively constant ambient temperatures.

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, presses, etc.
- Lightly loaded industrial gears and bearings where medium anti-wear characteristics are required
- Hydraulic pumps of different types and manufacturers

Characteristics	Advantages
Stable viscosity	It maintains a stable viscosity value under conditions of different pressures, which enables precise operation of the system
Excellent anti-wear characteristics	Proven zinc-based additives help reduce wear and protect the pump and components, thus extending the life of the equipment
Low tendency towards foaming	A permanent, constant, oil film provides protection against wear in all working conditions
Excellent thermal and oxidation stability	It provides excellent resistance to oil aging and thus enables a longer replacement interval
The ability to extract water	Efficient separation of the water present allows for a long oil change period
Exceptional protection against rust and corrosion	Effectively protects all parts of the system, thereby extending the service life of the equipment

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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);
- AIST (US Steel) 126,127

Typical characteristics

Characteristics	Method	NISOTEC HIDROL HM 46
ISO grade		46
Kinematic viscosity at 40°C, mm^2/s	ISO 3104	46
Kinematic viscosity at 100°C, mm^2/s	ISO 3104	6,67
Viscosity Index	ISO 2909	95
Cu strip corrosion, 3h, 100^0C	EN ISO 2160	1a
Pour Point, °C	ISO 3016	-21
Flash Point (COC), °C	EN ISO 2592	220
Density at 15°C, kg/m^3	EN ISO 3675	877

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

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