



Eni OSO IM 46

Eni OSO IM 46 is a high-quality, mineral oil-based hydraulic oil for use in all types of hydraulic applications.

The oils are based on selected paraffinic base oils and special additives with active ingredients that protect against corrosion, oil aging, wear, and hydrolysis.

Characteristics (typical values):

Eni OSO IM 46	Unit	Value	Test method
Kin. Viscosity at 40°C	mm ² /s	46	ASTM D 445
Kin. Viscosity at 100°C	mm ² /s	7,0	DIN 51 550
Viscosity index		110	DIN ISO 2909
Density at 15°C	kg/m ³	879	ASTM D 1298
Flashpoint	°C	232	ASTM D 92
Pourpoint	°C	-21	ASTM D 97
Designation		HLP	DIN 51 524T.2
ISO VG grade		46	DIN 51 524T.2

Properties and Performance:

- Eni OSO IM 46 was developed for use in power transmission systems and, thanks to its special additives, provides a highly durable lubricating film that withstands the high stresses encountered in high-pressure hydraulic systems.
- Eni OSO IM 46 is characterized by extremely good oxidation resistance and stability, even under exceptionally high thermal loads.
This property minimizes the formation of sludge and deposits, thus preventing the clogging of connections, valves, and controls.
- Excellent corrosion and rust protection properties prevent the oxidation of internal surfaces in hydraulic circuits, thus preventing malfunctions and oil damage caused by metal oxides.
- The good air release properties and anti-foaming behavior prevent problems with pressure build-up and control.
- The high viscosity index reduces viscosity fluctuations within the normal ambient temperature range, thereby guaranteeing reliable operation, consistent flow, low pressure loss, high efficiency, and maximum protection against cavitation.
- The low pour point ensures immediate operational readiness of the system at low ambient temperatures, without any malfunctions.
- Excellent demulsifying properties ensure rapid separation of any moisture or condensation that may have entered the system. This maintains lubrication performance and corrosion protection even in the presence of moisture.

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Applications:

Eni OSO IM 46 can be used in hydraulic power transmission systems, control and regulating devices for vehicles, construction, agricultural and forestry machinery, as well as industrial plants, metalworking machines, marine and aerospace equipment.

Eni OSO IM 46 is recommended for all types of servo-driven pumps, axial piston pumps, and vane pumps, with and without induction motors. Due to its excellent thermal and oxidation stability, it is particularly suitable for demanding applications such as plastic injection molding machines.

Eni OSO IM 46 meets the requirements of the following specifications:

DIN 51524 T.2 HLP
ISO 11158 (HM)
ASTM D 6158 (HM)
Bosch Rexroth RDE 90245 (Approval)
BIS 10522-1983 / BIS 11656-1986
Parker Denison HF-0 / HF-1 / HF-2
Eaton M-2950-S
Cincinnati Milacron P68, P69 & P70