

Ashless ISO-L-HV synthetic hydraulic oils for hydraulic transmission and control circuits.

**PERFORMANCE**

**Specifications:**

NF E 48.603 ISO-L-HV VG 32-46-68  
DIN 51524 Part 2 HVLV 32-46-68  
DENISON HF-0, HF-1, HF-2  
EATON E-FDGN TB002E  
FIVES P68,P69,P70  
ISO 11158 HV  
ASTM D 6158  
AIST 127  
GM LS-2  
SAE MS 1004

**ADVANTAGES**

- Enhanced wear protection/extended service life for assemblies and components
- Longer oil change intervals (synthetic bases)
- Higher system efficiency/energy efficiency/increase in output
- Cleaner/improved performance of filters/fewer maintenance tasks
- Viscosity control (high viscosity index)
- Better fluidity at low temperatures (low pour point)
- Lessened environmental impact (zinc-free package of additives and very low sulphur content of the base oils)

MATIC SH hydraulic oils are formulated from hydrocracked base oils and ashless, zinc-free additives which give them the anti-wear, anti-oxidant, anti-corrosion and anti-foaming properties necessary for use in hydraulic transmission and control circuits operating under demanding temperature and pressure conditions.

In particular, the ashless anti-wear additives provide effective protection for copper-based alloys against corrosion in tough hydraulic applications, such as high-pressure axial piston pumps.

MATIC SH hydraulic oils have very high thermal and chemical stability, they completely and rapidly separate from water thanks to their good demulsibility, and their excellent de-aeration prevents pump cavitation and intermittent operation.

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MATIC SH hydraulic oils have excellent filterability qualities: Denison, Pall, AFNOR; the service life of filters is extended and the maintenance costs are reduced.

They have naturally low freezing points, and have no effect on hydrocarbon-resistant elastomer seals.

Their high viscosity index keeps the viscosity stable in applications subject to significant variations in temperature.

## USES

Hydraulic systems sensitive to the formation of deposits, servo-valves.

High-pressure hydraulic vane, piston and geared pumps, operating under demanding service conditions: plastic injection moulding, foundries, mining industries, etc.

Highly-stressed multi-metal hydraulic circuits where the service life of the oil has to be extended.

Characteristics	Methods	Units	Values		
Grades	ISO-VG	-	<b>32</b>	<b>46</b>	<b>68</b>
Density at 15°C	NF T 60-101	kg/m <sup>3</sup>	840	850	861
Kinematic viscosity at 40°C	NF T 60-100	mm <sup>2</sup> /s	31.9	45.8	69.2
Kinematic viscosity at 100°C	NF T 60-100	mm <sup>2</sup> /s	6.2	8.1	10.6
Pour point	NF T 60-105	°C	-46	-43	-40
Viscosity index	NF T 60-136	-	149	152	142
Flash point	NF T 60-118	°C	232	240	240

*The characteristics are given purely for information and are consistent with our current production standards. IGOL reserves the right to modify them, in order to pass on technical developments to its customers. Before using this product, you should consult the instructions for use and the environmental impacts shown on the technical and safety data sheets. The information given above is based on the current state of our knowledge of the product in question. The product user should take all relevant precautions relating to its use. Under no circumstances may IGOL be held liable for damages resulting from misuse.*

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