

HIDRAULIK HD-A

1. DESCRIPTION/APPLICATION

HIDRAULIK HD-A are ashless, anti-wear monograde mineral hydraulic oils. They are intended for use in stationary hydraulic systems, operating under moderate loads and at operating temperatures of up to 80°C. Their advantage lies in improved anti-corrosion properties.

Available in the following viscosity grades: ISO VG 32, 46, 68 and 100.

Advantages of **HIDRAULIK HD-A**:

- High oxidation stability
- Excellent anti-wear characteristics
- Efficient protection against corrosion and rust
- Good filterability
- Rapid water separation
- Prompt release of air, no foaming

2. PRODUCT QUALITY*

Specifications	Quality level		Specifications	Quality level	
SRPS ISO 6743-4	HM	pass	Eaton Vickers	I-286-S, M-2950-S	pass
SRPS ISO 11158	HM	pass	Denison Filterability	TP 02100	pass
DIN 51524-2	HLP	pass	U.S. Steel	126, 127, 136	pass
AFNOR NF E 48-603	HV	pass	VDMA	24318	pass
CETOP RTP 91 H	HM	pass			

* Specifications depend on viscosity grade

3. PACKAGING AND DELIVERY

The product is delivered in original packaging. Each shipment is accompanied by a quality certificate.

Plastic canisters: 4L, 10L; **Metal drums:** 200L; **IBC containers:** 1000L; **Bulk:** yes



4. TYPICAL CHARACTERISTICS

Characteristic	Test method	Typical values			
ISO VG		32	46	68	100
Viscosity at 40°C, mm ² /s	ASTM D 445	32	46	68	100
IV, min.	ASTM D 2270	95	95	95	90
Flash point, °C, min.	ASTM D 92	188	196	196	205
Pour point, °C, max.	ASTM D 97	-18	-15	-12	-12
Foaming, mL/mL, max.	ASTM D 892		25/0, 50/0, 25/0		
Rust protection, test A and B	ASTM D 665		Pass		
Demulsibility 40-37-3, minutes, max.	ASTM D 1401	30	30	30	30
FZG, pass	DIN 51354	10	10	10	10

5. STORAGE AND HANDLING

Storage

The product should be stored in dry, cool, well ventilated places, protected from direct atmospheric influence. Avoid heat sources and strong corrosion agents. Weather conditions may damage labels on packaging. Excessive changes in ambient temperature may cause leakage. As the content expands and shrinks, water may be entrained through caps, although the drums are sealed.

If stored in an open area we recommend the following precautions:

- Lay the drums so that the caps are at 9:00 and 3:00 o'clock position so moisture penetration and seal drying is minimized.
- If the drums are vertically positioned, they should be slightly tilted to avoid water accumulation on the upper surface.
- Caps must be sealed tight. Before removing the caps, upper drum surface should be dried and cleaned to avoid lubricant pollution.
- Large tanks should preferably be used indoors with an outside breather line. Ambient. Exposure to temperatures above 35°C should be avoided.

Storage temperature:

Recommended materials for storing:

Materials that are not recommended:

Other information:

Metal drums or polyethylene canisters.

Do not use packaging that contains zinc.

Polyethylene packaging material should not be exposed to high temperatures because of possible risk of distortion.

