



# Eterna Hydrex AW Oils

## *High performance hydraulic oils*

Premium quality, high viscosity index mineral oil based lubricants specially formulated using carefully selected additives with a low zinc containing anti-wear system to give excellent performance in standard industrial hydraulic and fluid power transmission system lubrication.

### Applications

- Hydraulic System
- Machine tools
- Centrifugal pumps
- Injection moulding machines
- Gear units
- Centralized bearing lubricating system

### Performance Features

- **Thermal stability**  
Thermally stable in modern hydraulic systems working in extreme conditions of load and temperature.
- **Excellent Oxidation resistance**  
Excellent Resistance to oxidation in the presence of air, water and copper.
- **Outstanding anti-wear performance**  
Proven anti-wear additives are incorporated to be effective throughout the range of operating conditions, including low and severe duty high load conditions.
- **Superior filterability**  
Suitable for ultra-fine filtration, an essential requirement in today's hydraulic systems. Unaffected by the usual products of contamination, such as water and calcium, which are known to cause blockage of fine filters.
- **Good hydrolytic stability**  
Good chemical stability in the presence of moisture which ensures long oil life and reduces the risk of corrosion
- **Low friction**  
Possess high lubrication properties and excellent low friction characteristics in hydraulic systems operating at low or high speed. Prevent problem of stick-slip in critical applications.
- **Excellent air release and anti-foam properties**  
Careful use of additives to ensure quick air release without excessive foaming.
- **Demulsibility / Good water separation**

The good water separation properties (demulsibility) resist the formation of highly viscous water-in-oil emulsions and prevent consequent hydraulic system and pump damage.

- **All round versatility**

Suitable for a wide range of other industrial applications.

Meets the performances of

ANFOR E- 48-603, ANFORE NFE 48-690,(Dry) ANFORE NFE 48-691( Wet)

DIN 51524 PART2

DENISON HF-1, HF-2, HF-0

Cincinnati Machine P-68,P-69 ,P-70

Jeffrey No 87

US Steel 136, 137

General Motors LH-04-01,LH-06-1,LH-15-01

Commercial Hydraulics (Except for PM-500 series containing silver containing pumps which require R&O additive system)

Vickers I-286-S, M-2950-S

Racine, variable volume pumps

Lee-Norse, 100-1

Ford M-6C32

B.F Goodrich 0152

Bosch Rexroth RE90220

**Approved by Denison for HF0,HF1, HF2**

### Compatibility

Eterna Hydrex AW Oils are fully compatible with most pumps. However, please consult your Eterna Representative before using in pumps containing silver plated components

### Seal & Paint Compatibility

Hydrex AW Oils are compatible with all seal materials and paints normally specified for use with mineral oils.

### Health, Safety & Environment

Hydrex AW Oils are unlikely to present any significant HSE hazard when properly used in the recommended application whilst good industrial, personal hygiene and environmental standards are maintained.

Avoid contact with skin. Use impervious gloves with used oil. In the event of skin contact, wash immediately with soap and water.

Dispose used oil safely. Do not discharge into drains, soil or water.



## Advice

Advice on applications not covered in this leaflet may be obtained from the Eterna PLC,  
5a Oba Adeyinka Oyekan Avenue, Ikoyi

Tel: 01-8981836, 8981842, 2691651

## Typical Physical Characteristics

<b>Eterna Hydrex AW OIL</b>	<b>32</b>	<b>46</b>	<b>68</b>	<b>100</b>	<b>150</b>
<b>Kinematic Viscosity</b> @ 40°C mm <sup>2</sup> /s 100°C mm <sup>2</sup> /s	31.5 5.38	46 6.87	68 8.74	100 11.3	150 14.8
<b>Viscosity Index</b>	104	104	100	99	98
<b>Density @ 20°C</b> kg/l	0.87	0.873	0.876	0.882	0.887
<b>Flash Point</b> °C (COC)	216	222	232	240	248
<b>Pour Point</b> °C	-21	-18	-18	-18	-18

These characteristics are typical of current production. Whilst future production will conform to ETERNA Specifications, variations in these characteristics may occur.