



# Hydra AW Hydraulic Oil Series

A high-performance Hydraulic Oil

## PRODUCT DATA SHEET

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### Product Description

**Hydra AW Hydraulic** a high-performance anti-wear hydraulic oil formulated with high-quality base oils & advanced additive technology to provide reliable protection & efficient performance in hydraulic systems operating under severe conditions. It offers excellent wear protection, strong oil-film strength, & dependable operation in a wide range of industrial & mobile hydraulic applications.

### Features & Benefits

- Outstanding thermal & oxidation stability helps in extending life of oil and filter.
- Superior demulsibility property of oil protects hydraulic systems from small quantities of moisture and also separates readily from larger quantities of water.
- Excellent anti-wear properties and outstanding film strength provides exceptional equipment protection, that not only results in fewer breakdowns but also helps improve production efficiency.
- Excellent protection from rust and corrosion of multi-metallurgy system components

### Specifications

Hydra AW Hydraulic series meets or exceeds following International and Builder specifications:

- DIN 51524 Part 2 HLP type
- ISO 11158 (HM fluids)
- Denison HF-0 (T6H20C)
- VICKERS M-2950S, -I-286

### Applications

Hydra AW Hydraulic series are suitable for use in Hydraulic systems of Industrial and Mobile equipment

- Suitable for use in Marine hydraulics, machine tools, mould injection machines and hydraulic presses.
- Applications where anti-wear lubricant is required: low charged gears, bearings, air compressors etc.,

## Typical Characteristics

| Hydra AW                    | Test Method | Units | 15    | 22    | 32    | 46    | 68    | 100   | 150   |
|-----------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
| ISO Viscosity Grade         | ISO 3448    | -     | 15    | 22    | 32    | 46    | 68    | 100   | 150   |
| Density @ 15 °C             | ASTM D 4052 | gm/cc | 0.845 | 0.864 | 0.870 | 0.878 | 0.880 | 0.887 | 0.894 |
| Viscosity @ 40 °C           | ASTM D 445  | cSt   | 15.6  | 22.9  | 32.4  | 46.8  | 68.9  | 100.8 | 150.2 |
| Viscosity @ 100 °C          | ASTM D 445  | cSt   | 3.5   | 4.4   | 5.38  | 6.78  | 8.72  | 11.15 | 14.56 |
| Viscosity Index             | ASTM D 2270 | -     | 100   | 100   | 98    | 98    | 98    | 95    | 95    |
| Pour Point                  | ASTM D 97   | °C    | -39   | -30   | -27   | -27   | -21   | -21   | -18   |
| Flash Point (COC)           | ASTM D 92   | °C    | 180   | 204   | 224   | 230   | 234   | 246   | 272   |
| Copper Strip Corrosion      | ASTM D 130  | -     | 1A    | 1B    | 1B    | 1B    | 1B    | 1B    | 1B    |
| Rust Characteristics Proc B | ASTM D 665  | -     | Pass  | Pass  | Pass  | Pass  | Pass  | Pass  | Pass  |
| Foam Seq I,II,III           | ASTM D 892  | ml/ml | 20/0  | 20/0  | 20/0  | 20/0  | 20/0  | 20/0  | 20/0  |

The above figures are typical of blends with normal production tolerance and do not constitute a specification.