Super S SuperDraulic AW Hydraulic Fluids are premium multi-grade high viscosity index anti-wear hydraulic oils formulated to meet the demands of modern hydraulic systems operating at low or widely varying temperature ranges. The combination of high VI base stocks and a carefully balanced additive system chosen to provide excellent trouble free, extended drain protection up for 8,000 hrs in well maintained systems.

Super S SuperDraulic AW Hydraulic Fluids exceed the performance standards for use in most modern high pressure hydraulic systems operating across a wide temperature range. They contain a synergistic combination of antioxidant and rust and oxidation (R&O) inhibitors that stabilize the system providing extended drain service effectively reducing maintenance costs.

Super S SuperDraulic AW Hydraulic Fluids demonstrate excellent thermal stability for protection against oil degradation and deposit formation leading to a cleaner, more efficient operating environment. They are also easily filtered even in the presence of water showing excellent demulsibility. The highly shear stable viscosity modifier offers multi-grade performance in low temperatures making it an excellent general lubricant and a suitable service fill for most equipment calling for a HVI AW hydraulic fluid.

**FEATURES/ BENEFITS**
- Super S SuperDraulic AW Hydraulic Fluids are available:
- viscosity grades from ISO VG 15 to ISO VG 220
- >8000 hr on ASTM D-943
- Exceptional anti-wear protection for equipment operating under high pressures and loads
- Oxidation inhibitors provide sludge and deposit control, and longer service life
- Superior Rust and corrosion protection for all system components.
- Excellent water separation and demulsibility
- Excellent anti foam and rapid air release

**APPLICATIONS**
- Super S SuperDraulic AW Hydraulic Fluids are recommended for applications calling for anti wear, rust and oxidation inhibited oils
- Hydraulic systems
- Air compressors
- Industrial bearings,
- Circulating systems, splash, bath and ring lube systems for bearings and gears
- A myriad of assorted industrial applications: chains, hoists, machine tools et al
- Gear sets not requiring an EP gear oil
- Bath, Splash Circulating or Mist systems
- AW 15 and 22 are manufactured from specially selected, highly refined, low pour point base stocks and include a pour point depressant for operation in unusually cold conditions. The low pour point minimizes filter plugging in the absence of synthetics
- AW 32, 46, & 68 are premium anti-wear hydraulic fluids with outstanding low temperature characteristics and meet Fives P-68, 69, & 70 respectively. They are specially formulated for use in mobile equipment hydraulic circuits where wide temperature ranges are encountered. (Cherry pickers, bucket trucks and marine hydraulics).

**RECOMMENDATIONS/SPECIFICATIONS**

ASTM 6158
Fives Cincinnati P-68, P-69, P-70
Denison HF-0, HF-I and HF-2
Sperry Vickers M2950-S and I-286-S
DIN 51524-3, ISO 11158 HM
DIN 51506VDL
GM LS-2
US Steel 126-127-136
Eaton Brochure 03-401-2010
Swedish Standard SS 15 54 34, SMR 1996-2
Siemens TLV 9013
US MIL-PRF-17331J
Volvo WB101 (VCE 97303)

Special handling, notices or warnings
Use the same care and handling as for any petroleum product.
## TECHNICAL PRODUCT INFORMATION

### Typical Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method ASTM - D</th>
<th>ISO Viscosity Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>15 22 32 46 68 100 150 220</td>
<td></td>
</tr>
<tr>
<td>AGMA Grade</td>
<td>1 2 3 4 5</td>
<td></td>
</tr>
<tr>
<td>Pour Point, °C/°F</td>
<td>-48/-54 -42/-43.6</td>
<td></td>
</tr>
<tr>
<td>Flash Point, °C/°F</td>
<td>92 200/392 202/396 204/400 207/405 232/450 241/465 250/482 256/493</td>
<td></td>
</tr>
<tr>
<td>cSt @ 40°C</td>
<td>445 16.4 23.7 31.5 47.8 66 100 148.5 217.6</td>
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</tr>
<tr>
<td>cSt @ 100°C</td>
<td>445 2.7 4.8 5.3 7.0 8.4 11.0 19.0 25.11</td>
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<tr>
<td>Viscosity Index</td>
<td>2270 120-150 120-150 120-150 120-150 120-150 125-145 125-150 130-165</td>
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<tr>
<td>Color</td>
<td>1500 L1.0 L1.0 L1.0 L1.0 L1.5 L1.5 L1.5 L1.5</td>
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<tr>
<td>Oxidation Life Hrs to 2.0 Acid No.</td>
<td>943 8000 8000 8000 8000 8000 8000 8000 8000</td>
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</tbody>
</table>

Typical test data are average values only. Minor variations which do not affect product performance are to be expected during normal manufacturing.