



AW 46 FR Fire Resistant Hydraulic Fluid

Description

AW 46 FR was designed to replace anti-wear, mineral oil based hydraulic fluids as well as vegetable based fluids and polyol esthers. **AW 46 FR** can be used in or near fire hazards and in environmentally sensitive hydraulic applications without compromising the overall hydraulic system operation. For optimum product performance, use **AW 46 FR** in systems with a maximum operating temperature of 70°C (160°F).

AW 46 FR combines high-quality, natural esters and carefully selected additives to achieve excellent hydraulic fluid performance and deliver exceptional protection against wear to hydraulic pumps and system seals, equivalent to that of mineral-oil-based hydraulic fluids. It does not contain water, mineral oil or phosphate ester.

AW 46 FR is used as received. Its higher viscosity index compared with mineral oil makes it ideal for use at a wider temperature range with good cold start-up properties and higher viscosity at increased temperatures.

AW 46 FR is ideal for use in a wide variety of industrial applications as well as heavy off-highway equipment.

Typical Properties

Property	Results
Kinematic Viscosity	
@ 40°C	46.1 cSt
@ 100°C	9.11 cSt
Viscosity Index	184
Flash Point, °F, COC	500
Fire Point, °F, COC	620
API Gravity @ 60°F	26.0
Specific Gravity @ 60°F	0.8986
Pounds Per Gallon @ 60°F	7.483

Features/Benefits

- ✓ **Can be used in or near fire hazards and its high fire point provides superior fire resistance**
- ✓ **Excellent lubrication properties yield exceptional protection against wear to pumps and seals.**
- ✓ **Excellent shear stability assures viscosity and fire resistant properties are maintained during use**
- ✓ **Compatible with most standard seal materials**
- ✓ **One viscosity grade works in systems designed for ISO 46 or 68 fluid reducing storage and handling complexity**
- ✓ **Non-toxic and non-irritating, it contains no hazardous ingredients**
- ✓ **Low density compared to other HFD type fluids reduces pump strain and saves energy**