

## EMIRATES 1 AW HYDRAULIC FLUIDS

### *(Very High Performance Anti-Wear Hydraulic Oils)*

#### DESCRIPTION

**EMIRATES 1 AW HYDRAULIC FLUIDS** are designed for high performance hydraulic systems. These fluids provide excellent operating and maintenance benefits for increased productivity. **EMIRATES 1 AW HYDRAULIC FLUIDS** are manufactured with paraffinic base oils and high performance additives. They provide trouble free service in high output hydraulic systems at high temperature and pressure. This hydraulic fluid is designed to operate over a broad temperature range, resulting in lower maintenance cost and production down time.

#### APPLICATIONS

**EMIRATES 1 AW HYDRAULIC FLUIDS** are recommended for vane, piston, or gear-type hydraulic pumps in heavy duty and industrial service. Check your owner's manual for correct fluid viscosity.

#### Properties

**EMIRATES 1 AW HYDRAULIC FLUIDS** have increased discharge flow rates and decreased internal pump leakage rates resulting in increased hydraulic system pumping efficiency, and therefore fewer fluid changes and less used fluid disposal. Premium base oils and advanced additive technology are highly resistant to oxidation and viscosity breakdown ensuring long service life in demanding applications. These hydraulic oils may also be used as general purpose lubricants where straight mineral oils and conventional rust and oxidation inhibited oils are recommended.

#### Product Benefits

- High protection against wear insuring maximum equipment life.
- Superior thermal stability avoiding formation of sludge even at high temperature.
- Very good oxidation stability ensuring a long service life of the fluid
- Quality reserve maintains performance features even under severe service conditions and extended drain intervals
- Excellent hydrolytic stability avoiding filter blocking.
- Excellent protection against rust and corrosion.
- Good anti-foam and air release properties by using Silicon free components.
- Good demulsibility ensuring rapid water separation
- Reduced maintenance and operating costs
- Remarkable filterability even in the presence of water

#### Recommendations / Specifications

**Meets or exceeds :** ASTM D6158 , Cincinnati/MAG IAS P-68 (AW 32) , Cincinnati/MAG IAS P-69 (AW 68) , Cincinnati/MAG IAS P-70 (AW 46), Parker Denison HF-0, HF-1, HF-2, Sperry Vickers/Eaton I-286-S, M-2950-S ,Eaton E-FDGN-TB002-E, 35VQ25A ,US Steel 127, 136 ,DIN 51524 Part 1, 2, 3 ,General Motors LS-2, JCMAS HK, Bosch Rexroth & Racine.

#### **TYPICAL TECHNICAL PROPERTIES**

ISO Viscosity Grade	22	32	46	68	100
Appearance, Visual	B&C	B&C	B&C	B&C	B&C
Density at 15°C, g/ml, ASTM D4052	0.860	0.865	0.870	0.870	0.875
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	22	32	46	68	100
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	4.5	5.55	7.05	8.97	11.54
Viscosity Index, ASTM D2270	114	112	110	105	102
Flash Point(COC), °C, ASTM D92	210	210	220	226	230
Pour Point, °C, ASTM D97	-42	-39	-36	-33	-27
Rust protection Proc B, ASTM D665	PASS	PASS	PASS	PASS	PASS

\*C & B: Clear & Bright

**Note:** The information on this Product Data Sheet is believed to be accurate and is typical of current production. Specifications are subject to change without notice. For additional queries, please contact Emirates 1 Technical Service Department.

**Health and Safety:** Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS). Safety Data Sheets available on request.

**Available in:** Cartons:12x 1 L, 24x1 L, 4x5L 6 x 4 L, 6 x 5 L, Pails: 20 L & 25 L, Drums: 200 L, 208 L