



**PREMIUM NON-ZINC  
AW HYDRAULIC FLUID**

Environmentally Friendly Hydraulic Fluid  
Excellent Rust & Oxidation Protection



REV: 05.17.2017



**DESCRIPTION**

Gard™ Premium Non-Zinc Hydraulic Fluids are high performance, all-purpose hydraulic fluids using the latest ashless anti-wear additive technology. State-of-the-art additive chemistry ensures maximum performance from hydraulic pumps, motors, valves, and cylinders.

Gard Premium Non-Zinc Hydraulic Fluids meet all domestic and international specifications for anti-wear hydraulic fluids. They are also recommended for gear and bearing lubrication on general industrial applications. Gard Premium Non-Zinc Hydraulic Fluids exceeds the EPA marine standards for dissolved oxygen and LC-50 in saltwater conditions and is suitable for marine applications where a slight amber water sheen is acceptable.

**BENEFITS**

- ▣ Protects against metal to metal contact
- ▣ Excellent protection against rust, oxidation, and corrosion
- ▣ Prevents pump wear and oxidation sludge; is thermally stable
- ▣ Longer service life through higher oxidation stability
- ▣ Good filterability and water separation
- ▣ Environmentally friendly additive technology
- ▣ Suitable in marine hydraulic applications

**PERFORMANCE**

**Performance Levels**

- Parker Hanifin (Denison) - HF-0, HF-1, HF-2
- FIVES (Formerly Cincinnati) - P-68, P-69, P-70
- German Institute of Standardization - DIN 51524, Part 2 and 3
- International Standards Organization - ISO 11158 (HM, HV)
- AIST (Formerly US Steel) - 126, 127, 136
- Association Francaise de Normalisation - AFNOR 48603 (HM, HV)
- USA EPA - Dissolved oxygen; Passed LC 50 toxicity saltwater

TYPICAL PROPERTIES	METHOD	ISO 32	ISO 46	ISO 68	ISO 100
API Gravity	D-1298	33.4	31.9	32.1	30.4
Specific Gravity at 15.6°C	D-1298	0.8579	0.8660	0.8698	0.8739
Viscosity, cSt at 40°C	D-0445	32.98	45.82	65.05	96.42
Viscosity, cSt at 100°C	D-0445	5.73	7.13	8.97	11.64
Viscosity Index	D-2270	115	115	113	109
Flash Point, °C (°F)	D-0092	228 (442)	236 (457)	245 (473)	266 (511)
Pour Point, °C (°F)	D-0097	-34 (-29)	-30 (-22)	-18 (0)	-18 (0)
Color	D-1500	L 0.5	L 0.5	L 0.5	L 0.5
AW Four Ball Scar	D-4172				
-1500 rpm/1h/300n		0.40	0.43	0.38	0.38
-1800 rpm/1h/400n		0.55	0.53	0.50	0.50
FZG Gear Test	DIN 51354	>12	>12	>12	>12
ML Reference No.		588801	588481	566899	566910



**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 qualifications, please contact Martin Lubricants Technical Service Department.

**Health And Safety Information** See separate Safety Data Sheets available on request.

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