



## PRODUCT INFORMATION

### EXTRANOL AW ASHLESS HYDRAULIC OILS

#### Overview

The EXTRANOL AW ASHLESS SERIES are highly refined ashless anti-wear hydraulic oils, developed to meet the requirements of high pressure hydraulic systems. These zinc-free oils are designed for use in vane, rotary, gear pumps, and compressors, along with circulating systems and machine tools. These oils are characterized by outstanding performance in preventing rust, oxidation, foaming, air entrainment and many other factors that occur in hydraulic systems. This fluid is non toxic and recommended for applications where the use of oils containing toxic heavy metals is restricted because of soil or water contamination. The additive system in these oils is approved as meeting the requirements of pump manufacturers and machine tool builders. These products have good oxidation resistance, detergency properties, rust and corrosion protection, as well as resistance to foaming. The unique additives used in our AW ASHLESS SERIES also allows for better detergency properties that prevent varnish buildup in sophisticated systems.

#### Features and Benefits

- Ashless antiwear
- Rust and corrosion protection
- Product versatility
  - Anti-foam
  - Excellent oxidation properties
- High temperature stability

#### Applications

This product is designed primarily for use in hydraulic systems located near environmentally friendly areas such as national parks, wildlife refuges and ski resorts.

#### Recommended For Applications

EXTRANOL AW ASHLESS HYDRAULIC OILS meet or exceed the following specifications  
Dennison HF-0, HF-1, HF-2, Vickers M-2950-S, I-286-S, Cincinnati Milacron P-68, P-69, P-70; DIN 51524 PART 2, GM LH-04-1, LH-06-1, LH-15-1, Rexroth, Sundstrand, Towler, US Steel 127, 136, ISO 11158:1997, German Steel Industry SEB 181222.

MADE IN USA.

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### Typical Properties

PRODUCT CODES	466	465	424	425
SAE Grade	AW32	AW46	AW68	AW100
API Gravity	31,5	31,5	31	30,5
Viscosity, cSt/40°C	32	46	68	100
Viscosity, cSt/100°C	5,2	6,9	8,9	10,8
Viscosity Index	100	99	98	96
Oxidation Stability	5000	5000	5000	4000
Remissability (D1401), min	20	20	20	20
FZG Pass, Load Stage	10	10	10	10
Rust (D665 A&B)	Pass	Pass	Pass	Pass
Flash Point, COC °F / °C	425/218	446/230	475/246	485/252
Pour Point ° C (D97)	-30	-27	-20	-18
Biodegradability in 28 days, OECD 301-B%	22	22	22	NA

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