

BIO-SYNTHETIC HYDRO WT (Breaks, Locks & Pitch Systems Oil)

Biodegradable Synthetic Hydraulic oil for Wind Turbine Equipment's

DESCRIPTION

BIO-SYNTHETIC HYDRO WT series are premium quality, high performance hydraulic oils developed to meet the demand for environmentally acceptable hydraulic fluids lubricants for hydraulic systems, vacuum pumps, motors, circulating systems & Wind Turbines Hydraulics systems (Locks, Brakes & Pitch systems). The products are blended in biodegradable synthetic polyol esters GROUP VI base fluids and a highly specialized ashless non-zinc anti-wear, thermally stable multifunctional additive package which provides the following performance. A high-performance, carefully selected additive package provides excellent anti-wear and extreme pressure (EP) properties as well as good thermal stability and corrosion protection. Inherently strong oxidation resistance helps to prevent gumming and deposit formation even at high temperatures. Because of the high natural **Group-6** base fluid and low pour point, the viscosity-temperature behaviour allows for a very wide operating temperature range. Compared to vegetable oil based (HETG) products, HEES (Hydraulic Oil Environmental Synthetic Ester) fluids, such as the **BIO-SYNTHETIC HYDRO WT** series, will give an overall improved performance & in particular related to higher operating temperatures and better thermal and oxidation resistance. **BIO-SYNTHETIC HYDRO WT** is environmentally accepted hydraulic fluids.

FEATURES AND BENEFITS

- Reduced friction, lower fuel cost, High temperature stability
- Low temperature fluidity, Superior wear protection
- Superior shock loading protection
- Lower coefficient of friction, Rust & corrosion protection
- Compatibility with conventional seal materials
- Elimination of carbonaceous and lacquer deposits
- Reduced down time, Extended change out intervals
- Energy savings, Less maintenance and down time
- Greater biodegradability compared to petroleum products
- Non Toxic fluid can use at Swimming pool for waves, filtration systems etc.

PROPERTIES

ISO Viscosity Grade	32	46	68
Colour	Light Yellow		
Type of Oil	Polyalphaolefin		
Specific Gravity @ 60°C	0.923	0.923	0.926
Viscosity Cst @ 40 °C	32.7	46.7	68.7
Viscosity Cst @ 100 °C	6.63	8.45	11.17
Viscosity Index,	214	216	216
Pour Point, °C,	-54	-45	-39
Flash Point, °C,	250	240	240
Copper Corrosion	1a	1a	1a
Biodegradability, CEC-L-33-A94	>70%	>70%	>70%
Aquatic Toxicity Modified OECD203 (LC50 Trout, ppm)	>5000	>5000	>5000

APPLICATIONS

1. **BIO-SYNTHETIC HYDRO WT** series are also suitable for use in the power and energy industry, particularly in wind turbine applications. There are some special handling procedures with the **BIO-SYNTHETIC HYDRO WT** series.
2. **BIO-SYNTHETIC HYDRO WT** series is fully miscible with mineral oil based hydraulic oils, its biodegradability will be reduced if the two product types are mixed. It is always recommended to test for miscibility. Residual quantities of mineral oil should be kept at a minimum. Furthermore, paint finishes should be on 2-part epoxy system. Metals such as zinc and tin should be avoided wherever possible. The cleaning effect of these fluids can dislodge large amounts of dirt, which can shorten filter life. Water content during use should be $< 0, 1\%$. Any collected water should be drained.
3. **BIO-SYNTHETIC HYDRO WT** for hydraulic, turbine and circulating systems, drip oil for vertical shaft driven deep well turbine pumps and other drip systems, Airline Oil for high and low pressure airline and pneumatic tool systems.

HEALTH AND SAFETY

- Depending on the contamination and/or degradation levels, small amounts of spilled or leaked **BIO-SYNTHETIC HYDRO WT** fluid will not adversely affect ground water or the environment. For small spills on the ground uncontaminated product will be readily biodegraded by naturally occurring soil organisms when exposed to air. Nonetheless, spillage of **BIO-SYNTHETIC HYDRO WT** Fluid should be handled similarly to currently accepted methods for conventional mineral oil spills.
- Acceptable methods of disposal include use as a fuel supplement, recycling and reclamation (that is, the same disposal practices available for conventional mineral oils). Since **BIO-SYNTHETIC HYDRO WT** Fluid typically will not be a hazardous waste, additional disposal options may be available, including land farming or processing through sewage treatment facilities. If necessary, approvals are obtained from appropriate regulatory authorities.
- The flushing solution is not being biodegradable therefore; it should be disposed of in an environmentally safe manner. Follow procedures used for disposing of conventional mineral oils.

PROPER USE FOR 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) are followed. MSDS's are available upon request through your sales contact office, or via the internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

Additional Information:

When converting to new oil kindly flush previous oil before filling, all previous lubricant should be removed as much as possible prior to operation. During initial operation, lubrication intervals should be monitored closely to ensure all previous lubricant is purged.

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