SYNTHDROL

SYNTHETIC HYDRAULIC FLUID

Product Description

Synthetic Hydraulic Fluid is designed with ash less technology to give maximum protection and improve productivity and fuel efficiency in both mobile and stationary hydraulic equipment in industrial applications. These are high viscosity index fluids that provide a wide operating temperature range. SYNTHDROL are lubricants for hydraulic systems, vacuum pumps, motors, circulating systems and general plant utility where extreme temperatures or severe applications require the performance characteristics of synthetic oils. SYNTHDROL fluids are formulated with synthetic base stocks compounded with anti-rust, anti-wear, and anti- oxidant additive systems. Natural resistance to carbon and varnish formations provides for equipment operation with minimum deposits from thermal stresses.

Applications

SYNTHDROL is primarily recommended for severe service or extreme temperature applications. These include hydraulic systems - ice machines, air compressors - turbines and circulating systems. Synthdrol will also provide extra-long service life in any general-purpose system where R & O anti-wear type lubricants are required. SYNTHDROL are designed to give maximum protection to both mobile and stationary hydraulic pumps in high-performance industrial applications as well as in environmentally sensitive areas.

Benefits

- Elimination of carbonaceous and lacquer deposits.
- Low and high temperature stability (-40 to 260 ° C).
- Lower coefficient of friction.
- Compatibility with conventional seal materials.
- Less maintenance and down time.
- Greater biodegradability compared to petroleum products.
- Hydraulic system efficiency.
- Premium performance.
- Long oil life.
- Excellent wear protection at startup.
- Excellent low temperature pump ability.
- Zinc-free/Ash less.

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Typical Properties

PROPERTIES	15	32	46	68	Test Method
Density @29.5°C	0.82	0.83	0.83	0.84	
Flash Point °C	180	218	228	230	ASTM D92
Viscosity @ 40 °C CST	10-15	32	46	68	ASTM D445
Viscosity @ 100 °C CST	2.62	6.8	9.2	11.4	ASTM D445
Viscosity Index	91	184	186	165	ASTM D2270
Pour Point. °C	-46	-48	-44	-44	ASTM D-97
Copper Corrosion 3h @ 100°C	1b	1b	1b	1b	ASTM D130
Foam Test, Seq. I Tendency, ML Stability, ML	0 0	0 0	10 0	30 0	ASTM D892
Tapered Roller Bearing, % Viscosity Loss	<7%	<7%	<7%	<7%	
Rust Test, Procedure A & B	Pass	Pass	Pass	Pass	ASTM D665
Water Separability, minutes to <3ml at 54°C	10	10	10	10	ASTM D1401
Oxidation Stability- TOST Hours to 2.0mg KOH /g acid number	>10,000	>10,000	>10,000	>10,000	ASTM D943a
FZG Gear Test, Fail Load Stage	10	11	≥12	≥12	DIN 51354
Dielectric Strength, kVb,	35	35	35	35	ASTM D877c
Acute Aquatic Toxicity (LC-50)	Pass	Pass	Pass	Pass	OECD 203

Available Packs: 1, 5, 20, 50 and 210 Litres.

Shelf Life: 36 Months from manufacturing month.

* All related specifications are meets or exceeds.
Due to continual product research and development, the information contained herein is subject to change without notification.
Typical Properties may vary slightly. The Material Safety Data Sheet (MSDS) are available upon request through our sales office.

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Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product **SYNTHDROL**

Supplier **PETRELPLUS INC.**

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2. COMPOSITION

A composition of Synthetic Base Oil and proprietary Additives.

3. HAZARDS INDENTIFICATION

FIRE	-Flammable at high temperature.
HEALTH	
Eye contact	-May cause mild irritation to the eyes upon direct contact.
Skin contact	-Prolonged contact may defat the skin or can cause dermatitis.
Inhalation	-hazards.
Ingestion	-Harmful if swallowed.

4. FIRST-AID MEASURES

Inhalation	-Remove person to fresh air. Seek medical help if discomfort persists.
Ingestion	-Do not induce vomiting. Seek medical support.
Skin Contact	-Immediately flush skin with plenty of water for at least 15 minutes.
Eye Contact	-Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally.

5. FIRE-FIGHTING METHODS

Extinguishing media	-Use dry chemical powder or carbon di – oxide or foam.
Special protective equipment	-Positive pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURE

Personal protection	-Adequate ventilation, gloves, goggles, overalls and boots.
Environmental precautions	-Avoid entry into water courses.
Clean up method	-Absorb on inert material.

7. STORAGE AND HANDLING

Handling	-Impervious gloves & eye protection ensure good ventilation. Keepaway from source of ignition.
Storage	-Store in a cool & dry place.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Respiratory protection	-Not required under normal conditions.
Skin/hand protection	-Impervious gloves, overalls, and boots.
Eye protection	-Use Goggles

9. TYPICAL PROPERTIES

Base Oil Type	-Synthetic Type
Copper Corrosion	- 1b
Flash Point, °C, COC, (Min)	- 180 to 230
TOST (Hours)	- >10,000

10. STABILITY AND REACTIVITY

Stability	-Stable
Conditions to avoid	-Excessive temperatures
Materials to avoid	-Strong oxidizers
Hazardous decomposition products	-Oxides of carbon and nitrogen

11. TOXICOLOGICAL INFORMATION

Skin contact	-Possible irritation
Eye contact	-Possible irritation
Inhalation	-Not applicable
Ingestion	-Irritation. May cause lung damage.
Long term effect	-Not known

12. ECOLOGICAL INFORMATION

Mobility	- Mobile
Degradation	- Low
Accumulation	-Not expected
Short- and Long-Term effect	- Water pollutant

13. DISPOSAL CONSIDERATIONS

Dispose off according to local and National Regulations.

14. TRANSPORT INFOMRATION

CPL	- Not applicable
IMO	-Not applicable

15. REGULATORY INFORMATION

Symbol(s)	-Not applicable
Phrase(s)	- Not applicable
Phrase(s)	- Not applicable

16. OTHER INFORMATION: PRODUCT SAFETY

For safety reasons, it is IMPERATIVE that customer: -Ensure that all those within their control who use the products are supplied with all relevant information contained within the Material Safety Data Sheet and Technical Bulletin concerning the applications for which the product is designed and any instructions or warning.