



HYDROPLUS AW SK SERIES

PREMIUM QUALITY/ANTIWEAR HYDRAULIC OILS (ISO VG 32/46/68/100/150)

Product Description

HYDROPLUS AW SK Series oils are premium quality anti-wear hydraulic oils intended for industrial and mobile service applications where anti-wear lubricants are required. They are formulated with high quality base oils and a select additive system that results in products that provide many desirable features to improve and prolong equipment life. HYDROPLUS AW SK Series oils are designed to provide good performance in a range of hydraulic components used in systems subjected to moderate to severe operating conditions. These products meet the performance requirements of a wide range of hydraulic system and component OEM's.

Applications

- Systems containing gears and bearings where mild anti-wear characteristics are required.
- Where small amounts of water are unavoidable and this water could damage components.
- Systems employing gear, vane, radial and axial piston pumps where anti-wear hydraulic oils are recommended.
- Applications where thin oil-film corrosion protection is an asset such as systems where small amounts of water exist.
- Hydraulic applications where contamination or leakages are unavoidable.

Benefits

- Good anti-wear performance reducing pump wear and leading to long pump life.
- Fast air release, good foam control and good water separability.
- This oil has good chemical stability in the presence of moisture, which ensures long oil life and reduces the risk of corrosion and rusting.
- Filterability to prevent filter blockage even in the presence of water.
- Effective oxidation and chemical stability characteristics allow good oil and filter life.
- This oil possesses high lubrication properties and excellent low friction characteristics in hydraulic systems operating at low or high speed.
- Prevents Stick-slip problems in critical applications enabling very fine control of machinery.

Benefits of Hydro plus AW SK Series.

- The HYDROPLUS AW SK Series hydraulic oils help reduce the potential for wear and corrosion, particularly where water or moisture is present.
- Their effective oxidation resistance and chemical stability support good oil life in moderate to severe applications.
- Their high level of anti-wear properties prevents wear in vane, gear and piston pumps used in hydraulic service.
- Their good demulsibility characteristics permit the oils to work well in systems contaminated with small amounts of water yet readily separate large amounts of water.

PETRELPLUS INC.

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Performance Standards

- ISO 6743/4 HM
- DIN 51524 P2 HLP
- DENISON HF0-HF2
- AFNOR NF E 48-603 HM
- CINCINNATI MILACRON P68, P69, P70
- VICKERS M-2950S, -I-286

Typical Properties

PROPERTIES	TEST METHOD	HYDROPLUS AW SK 32	HYDROPLUS AW SK 46	HYDROPLUS AW SK 68	HYDROPLUS AW SK 100	HYDROPLUS AW SK 150
ISO Viscosity Grade		32	46	68	100	150
Density @15°C	ASTM D 1298	0.84-0.890	0.840-0.890	0.840-0.890	0.840-0.890	0.840-0.890
Viscosity cSt @ 40°C	ASTMD 445	28-36	42-48	64-72	95-105	145-155
Viscosity Index (min)	ASTM D 2270	105	105	108	95	95
Pour Point, °C, (max)	ASTM D 97	-24	-24	-24	-15	-18
Flash Point, °C, (min)	ASTM D 92	215	225	235	240	255
Rust protection SeaWater	ASTM D 665B	Pass	Pass	Pass	Pass	Pass
Copper Corrosion, 24 hours @ 121°C	ASTM D 130	1A	1A	1A	1A	1A

Available Packs: -20, 50 and 210 Ltr.

Shelf Life – 36 Months from the manufacturing.

*All related specifications meet or exceed.

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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1. PRODUCT AND COMPANY IDENTIFICATION

Product HYDROPLUS AW SK SERIES
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Call # +91 22 6216 7072
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2. COMPOSITION

Composition of base oil and Proprietary additives.

3. HAZARDS IDENTIFICATION

Not classified as hazardous.

4. FIRST-AID MEASURES

RESPIRATORY SYSTEM Remove to fresh air and get medical attention.
INGESTION Do not induce vomiting. Wash mouth out with water and obtain medical attention.
EYES Rinse immediately with plenty of water for at least 10 minutes. Get Medical Attention.
SKIN Remove contaminated clothing. Wash affected area with soap and water, get medical attention.

5. FIRE-FIGHTING METHODS

Foam, carbon dioxide or dry power

6. ACCIDENTAL RELEASE MEASURE

Contain and absorb in sand or earth. Ensure no material enters drains or water courses. Dispose of as solid waste in accordance with the relevant waste disposal regulations.

7. STORAGE AND HANDLING

Store in delivery packs in a cool dry place

HANDLING

At ambient temperatures wear gloves overalls and eye protection. The work area should be adequately ventilated. No eating drinking or smoking in the work area.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Standard: The substance with exposure limit is: Notation 1: Exposure Standard: 2nd substance with exposure limit is: Notation 2:

PERSONAL PROTECTION

Respiratory Protection:

Type of Cartridge (if Applicable):

Eye Protection: Safety Spectacles

Hand Protection: Gloves butyl or nitrile rubber

Industrial Hygiene: No eating drinking or smoking in the work area Ventilation: At room temperature handle in a well-ventilated area. Use exhaust ventilation if exposure to flume or aerosol can occur.

PROTECTION AGAINST FIRE AND EXPLOSION Combustible but not readily ignited. No explosion hazard.

EC SAFETY PHRASES Not classified as hazardous.

9. TYPICAL PROPERTIES

Viscosity @ 40°C, cSt	- 28 to 155
Viscosity Index	- 95 to 108
Flash Point, COC, °C	- 215 to 255
Rust Protection	- Pass

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

LD50 Acute Oral Toxicity: > 5000: mg/Kg: Rat
LC50 Acute Inhalation: mg/1:
Eye Irritation: No: Rabbit
Skin Irritation: No.: Rabbit
Sensation: No:
Further Information:

12. ECOLOGICAL INFORMATION

LC50 (96 Hour): mg/1
EC50 (24 Hour): mg/1
Biodegradability (Coupled units):

13. DISPOSAL CONSIDERATIONS

Solid material should be incinerated. Material absorbed on sand should be disposed of as solid waste.

14. TRANSPORT INFORMATION

IMDG No.: Not classified
Packing Groups: IATA-DGR
Class No.: Not classified
TREM CARD: Not classified
RID/ADR Class No.: Not classified Other Information

15. REGULATORY INFORMATION

Classification and labeling according to EC Directives 67/548
Not classified as hazardous. EC Risk Phrases Not classified as hazardous. Other Hazardous EC Safety Phrases Not classified as hazardous.

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