

## PRODUCT DATA SHEET

### HYDROMAX AW Anti-wear hydraulic oil

#### Description:

HYDROMAX AW OILS are processed from high viscosity index solvent refined base stocks, inhibited with Anti-wear, Anti-foam, Anti-rust, Anti-oxidant and demulsifier additives to provide good performance at varied operating conditions. These oils also possess good oxidation stability and demulsification properties and are intended to use as additive type Hydraulic oil in various hydraulic machines. Available in grades of ISO VG 32/46/68/100

#### Specification:

Meets the below physio-chemical characteristics of IS: 10522 – 1983  
Available packs: - Available in packs of Bulk, 210, 50, 20,10 & 5 Liters.

#### Application:

HYDROMAX AW OILS are recommended for lubrication of axle, piston, wear, & gear pumps used in Hydraulic system. Also recommended for use as Hydraulic fluids in machine tools, Press, Battery manufacturing plants, Dye casting machines, Production shops, printing works, grinding machines, where oil is recommended as a hydraulic medium to ensure fast, smooth and reliable machine operation with minimum power consumption. These oils are not intended for use in Hydraulic systems containing silver plated components.

#### Performance benefits:

- Excellent wear protection.
- Good resistance against oxidation.
- Fast, smooth reliable machine operation.
- Minimum power consumption.
- Ready to separate from water.
- Protection from rust.
- Reduced tendency to foam

## Physiochemical characteristics:

PARAMETER	TEST METHOD (IS :1448)	VG 32	VG 46	VG 68	VG 100
1. Appearance	Visual	C&B*	C&B*	C&B*	C&B*
2. Kinematic Viscosity in cSt @ 40°C	P : 25	30-34	44-48	64-72	90-110
3. Viscosity Index (VI), Min	P : 56	95	95	95	95
4. Flash Point (COC) °C, Min	P : 69	180	180	210	210
5. Pour point °C, Max	P : 10	-3	-3	0	0
6. Emulsion characteristics, Max	P : 91	<-----40-37-3 (20)----->		<-----40-37-3 (30)----->	
7. Copper strip	P : 15	←-----Not worse than 1----->			
8. Neutralization value (Total Acid Number, mg KOH / gm), max	P : 1	1.5	1.5	1.5	1.5
9. #Air release value at 50°C, minutes, max	P : 102	7	10	15	20
10. Foaming characteristics, foam stability after 10 min. settling time, foam ml					
At 24° Max	P : 67	NIL	NIL	NIL	NIL
At 93° Max		NIL	NIL	NIL	NIL
At 24° after cooling down from 93° Max		NIL	NIL	NIL	NIL
11. Rust test (seawater), after 24 hrs.	P: 96	←-----Passes----->			

Performance additives / chemicals are blended as per recommended dosage level prescribed by additive manufacturer

Performance tests: - DIN HL Type, also passes, Vickers pump wear 104C, FZG. Niemann EP test.

\* Clear and free from water, dirt and suspended impurities

# These performance tests are conducted at IIP, Dehradun if specific requirement of customer

Note: The above data is indicative values only. Minor variations, which do not affect product performance or quality, may be expected in manufacture.