

MAK HYDROL AW

Description

MAK Hydrol AW are premium Antiwear Hydraulic oils. They are blended from the Hydro processed Group II plus base oil. They are fortified with very carefully selected anti-wear additives which are very effective during very high or low load working conditions. They also show exceptional hydrolytic stability and demulsibility and resist any deterioration due to water contamination.

Application

These are recommended for hydraulic systems and a wide variety of circulation systems of industrial and automotive equipments. These are also used in General manufacturing, Metal and Power equipments.

Benefits

- **Outstanding Oxidation Stability:** Reduces consumption, filter blocking and valve sticking.
- **Good water and foam resistant properties:** Separates out water very fast in case of water ingress and releases entrapped air immediately to avoid foaming.
- **Excellent Hydrolytic Stability:** This avoids absorption of water in oil and thus enhances fluid life.

Performance Level

- IS 3098 : 1983 [Reaffirmed Nov., 1998]
- IPSS : 1-09-022
- IS 10522 : 1983 [Reaffirmed Nov., 1998]
- Vickers V-104C Vane pump test
- DIN 51 524 Part 1 HL Type
- Our grades meet above specification for the respective viscosity grades.

Technical Specifications

| Characteristics | ASTM | MAK HYDROL AW | | | | |
|-------------------------------------------------|-------|---------------|-------------|-------------|-------------|-------------|
| | | 32 | 46 | 68 | 100 | 150 |
| Appearance | -- | Clear fluid | Clear fluid | Clear fluid | Clear fluid | Clear fluid |
| Density at 15° C | D1298 | 0.852 | 0.855 | 0.86 | 0.865 | 0.874 |
| K.V at 40° C, cSt | D445 | 32.6 | 46.7 | 68.1 | 100.2 | 150.5 |
| Viscosity Index | D2270 | 101 | 100 | 99 | 96 | 95 |
| Pour Point, °C | D97 | -12 | -12 | -12 | -12 | -9 |
| Flash Point, (COC), °C | D92 | 220 | 226 | 238 | 248 | 256 |
| Copper Strip Corrosion Test at 100°C for 3 hrs. | D130 | 1a | 1a | 1a | 1a | 1a |
| Foaming Characteristics/Stability | | | | | | |
| a) Sequence I | | Nil | Nil | Nil | Nil | Nil |
| b) Sequence II | | Nil | Nil | Nil | Nil | Nil |
| c) Sequence III | D892 | Nil | Nil | Nil | Nil | Nil |

All the mentioned values are typical which may vary from batch to batch

Storage and Handling

- Indoor Storage is always preferable
- Barrels should be kept horizontally with bunk position at 3 O'clock 9 O'clock position
- Barrels should be kept away from dusty or heated areas.
- During handling any contact with dust must be avoided.

Health and Safety

These oils are not hazardous under normal conditions of use. For further guidance appropriate Material Safety Data Sheet (MSDS) may be referred.

Advice

For any further advice on applications or otherwise please contact the nearest Bharat Petroleum Territory Office or Technical Services Department at the address given below.

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