# MaxHydro HD 220

Premium Anti-Wear Industrial Hydraulic Fluid

## Description

MAXFLUID MaxHydro HD 220 is a premium anti-wear hydraulic fluid developed by MAXFLUID for industrial, mobile, and marine hydraulic systems operating under moderate to severe service conditions. Formulated with high-quality mineral base oils and advanced zinc-based anti-wear additives, it provides outstanding protection against wear, oxidation, corrosion, and deposit formation while ensuring long service life and reliable hydraulic performance.

MaxHydro HD 220 is designed to maintain system cleanliness, improve equipment efficiency, and deliver dependable operation across a wide range of hydraulic applications.

## Performance Features & Benefits

**Extended Oil Service Life**
MaxHydro HD 220 offers excellent resistance to thermal and oxidative degradation, minimizing sludge and varnish formation while extending oil drain intervals and reducing maintenance costs.

**Outstanding Wear Protection**
Advanced anti-wear technology provides excellent protection for hydraulic pumps, motors, valves, and other critical system components, helping reduce wear under both normal and heavy-duty operating conditions.

**Excellent System Cleanliness**
The carefully balanced additive system helps prevent deposit formation and keeps hydraulic systems clean, improving reliability and extending component life.

**Superior Water Separation**
Excellent demulsibility allows rapid separation of water from the lubricant, reducing corrosion, preventing rust formation, and maintaining optimum hydraulic performance.

**Fast Air Release & Low Foaming**
Rapid air release and effective anti-foam properties minimize cavitation, improve hydraulic response, and ensure smooth and efficient power transmission.

**Excellent Filterability**
MaxHydro HD 220 maintains excellent filter performance even in the presence of moisture, helping extend filter life while improving overall hydraulic system cleanliness.

## Applications

**MAXFLUID MaxHydro HD 220 is recommended for:**

- Industrial hydraulic systems
- Hydraulic presses
- Injection molding machines
- CNC machinery
- Manufacturing equipment
- Mobile hydraulic equipment
- Excavators
- Cranes
- Forklifts
- Construction machinery
- Marine hydraulic systems
- Hydraulic power units
- Circulating systems where ISO HM hydraulic oils are specified

Suitable for hydraulic systems where ISO HM anti-wear hydraulic fluids are recommended. Always follow the equipment manufacturer's lubricant recommendations.



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## Performance Standards

MAXFLUID MaxHydro HD 220 is formulated to meet or exceed the requirements of:

- ISO 11158 HM
- DIN 51524 Part 2 (HLP)
- ASTM D6158 HM
- Eaton Vickers M-2950-S / I-286-S
- Bosch Rexroth RE 90220
- GB 11118.1 HM

## Product Advantages

- Premium ISO VG 220 hydraulic fluid
- High-performance zinc-based anti-wear formulation
- Excellent oxidation and thermal stability
- Outstanding wear protection
- Superior water separation properties
- Fast air release and low foaming
- Excellent filterability
- Protects against rust and corrosion
- Maintains hydraulic system cleanliness
- Helps extend equipment service life
- Reduces maintenance costs and downtime

## TYPICAL PHYSICAL CHARACTERISTICS

| PROPERTIES | UNIT | METHOD | MaxHydro HD 220 |
|---|---|---|---|
| ISO Viscosity Grade | - | ISO 3448 | 220 |
| ISO Fluid Type | - | - | HM |
| Kinematic Viscosity @ 0°C | cSt | ASTM D445 | 5000 |
| Kinematic Viscosity @ 40°C | cSt | ASTM D445 | 220 |
| Kinematic Viscosity @ 100°C | cSt | ASTM D445 | 19.0 |
| Viscosity Index | - | ISO D2909 | 95 |
| Density @ 15°C | kg/l | ISO 12185 | 0.888 |
| Flash Point | °C | ISO 2592 | 240 |
| Pour Point | °C | ISO 3016 | -21 |

*The values shown are typical characteristics and may vary within normal manufacturing tolerances.*

## Health and Safety

MAXFLUID MaxHydro HD 220 is manufactured to high quality standards and is intended for professional industrial and hydraulic applications. Under normal operating conditions and when handled correctly, the product is not expected to present significant health or safety hazards.

Avoid prolonged or repeated skin contact and prevent contact with eyes. Wear appropriate personal protective equipment (PPE), including protective gloves and safety glasses, when handling the product. Ensure adequate ventilation in enclosed areas and avoid inhalation of oil mists.

Store in tightly sealed containers in a cool, dry, and well-ventilated area away from direct sunlight, heat sources, and incompatible materials. Prevent spills from entering drains, waterways, or soil.

For detailed information regarding safe handling, storage, transportation, and disposal, refer to the latest Safety Data Sheet (SDS) for MAXFLUID MaxHydro HD 220.



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