

# Opt-Max Hydonix AW32, 46, 68, 100

## ANTI-WEAR HYDRAULIC OIL

Opt-Max Hydonix AW32, 46, 68, 100 are formulated for use in all types of medium and high pressure hydraulic systems



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### Product Description

Opt-Max Hydonix AW32, 46, 68, 100 are premium, high performance anti-wear hydraulic oil designed to satisfy the performance requirements for a wide range of hydraulic systems which are subjected to high pressure and high temperature operating conditions. They resist breakdown under heat or mechanical stress and help prevent damaging deposit formation that can decrease the efficiency of your hydraulic power system.

### Features and Benefits

- Outstanding anti-wear properties that help to reduce component wear.
- Excellent corrosion protection which prevents internal hydraulic system corrosion.
- Good anti-foam and air release properties which help to ensure smooth system operation and efficiency.
- Excellent oxidation stability which helps to prolong oil and equipment life.
- Good compatibility with all common seal materials
- Good hydrolytic stability and water separation properties that promote excellent filterability in the presence of water contamination.

### Applications

- Hydraulic systems employing gear, vane, radial and axial pumps where anti-wear hydraulic oils are recommended.
- Hydraulic systems containing gears and bearings that require anti-wear properties.
- Suitable for marine applications where ISO AW category hydraulic fluids are recommended.
- Suitable for use in mobile hydraulic power applications such as excavators and cranes.

### Performance Standards

Opt-Max Hydonix AW32, 46, 68, 100 meet the following performance requirements:

- DIN 51524, Part II
- DENISON HF-2, HF-0
- Eton Vickers I-286-S [industrial equipment], M-2950-S [mobile equipment] (ISO 32, 46, 68)
- Cincinnati Machine P-68 (ISO 32), P-70 (ISO 46) and P-69 (ISO 68)

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## Specifications

Product Properties		Opt-Max Hydonix AW32	Opt-Max Hydonix AW46	Opt-Max Hydonix AW68	Opt-Max Hydonix AW100	Testing Methods
ISO Viscosity Grade	-	32	46	68	100	-
Kinematic Viscosity (40°C)	mm <sup>2</sup> /s	32.8	47.6	69.6	100	ASTM D445
Kinematic Viscosity (100°C)	mm <sup>2</sup> /s	5.6	7.1	8.9	11.4	ASTM D445
Viscosity Index	-	106	105	103	100	ASTM D2270
Density at 15°C	Kg/m <sup>3</sup>	870.0	876.0	883.0	887.0	ASTM D4052
Flash Point (open)	°C	215	220	225	230	ASTM D92
Pour Point	°C	-18	-15	-15	-12	ASTM D97

\* Above product properties are indicative and subject to change without prior notice

## Storage and Handling

- All storage equipment, tanks, pipes, valves and etc. apparatus have to be cleaned thoroughly and inspected to be clean for use before transferring or transporting Opt-Max Hydonix AW32, 46, 68, 100.
- Opt-Max Hydonix AW32, 46, 68, 100 must be stored in dedicated storage tanks/equipment and it is recommended to be stored in an indoor controlled environment.
- Storage tanks/equipment must be waterproof, mist-proof and free from other mechanical particles.
- Opt-Max Hydonix AW32, 46, 68, 100 must be clearly labelled properly during the entire transportation process to prevent the risk of mixing with other petrol-chemical product.

## Health & Safety

Opt-Max Hydonix AW32, 46, 68, 100 are unlikely to present any significant health or safety hazard when properly used in the recommended application. These products must always be handled with care, particularly avoiding skin contact. For further guidance on Product Health & Safety refer to the appropriate Opt-Max Hydonix AW32, 46, 68, 100 Material Safety Data Sheet.