

Opt-Max Hydonix HV15, 32, 46, 68, 100

HIGH VISCOSITY HYDRAULIC OIL

Opt-Max Hydraulic Oil HV15, 32, 46, 68, 100 are formulated for use in all types of medium and high pressure hydraulic systems.

Product Description

Opt-Max Hydonix HV15, 32, 46, 68, 100 are high performance hydraulic oil designed with excellent viscosity control under both severe mechanical stress and across a wide range of temperatures. These products provide outstanding protection and performance in most mobile equipment and other applications subjected to a wider range of ambient and operating temperatures.

Features and Benefits

- High viscosity index and low pour point allows the product to be used over a wide temperature range while maintaining maximum hydraulic efficiency and component protection at both low and high temperatures.
- Excellent anti-wear properties that help to minimise component wear.
- Excellent air separation properties which help to minimise aeration and cavitation damage.
- Excellent oxidation stability which helps to prolong long oil and equipment life.
- Good compatibility with all common seal materials.
- Excellent thermal and hydrolytic stability which helps prevent formation of deposits which may interfere with filtration system in equipment.

Applications

- Industrial and mobile hydraulic systems operating at high pressure and temperature in critical applications.
- Hydraulic systems where cold start up and high operating temperature are common.
- Hydraulic systems requiring a high degree of load carrying capability and anti-wear protection.
- Marine hydraulic power systems.

Performance Standards

Opt-Max Hydonix HV15, 32, 46, 68, 100 meet the following performance requirements:

- DIN 51524, Part III
- DENISON HF-2, HF-O (ISO 32, 46, 68)
- 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)

Opt-Max Global Pte Ltd

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Specifications

Product Properties		Opt-Max Hydonix HV15	Opt-Max Hydonix HV32	Opt-Max Hydonix HV46	Opt-Max Hydonix HV68	Opt-Max Hydonix HV100	Testing Methods
ISO Viscosity Grade	-	15	32	46	68	100	-
Kinematic Viscosity (40°C)	mm ² /s	16.0	31.9	47.7	68.7	97.1	ASTM D445
Kinematic Viscosity (100°C)	mm ² /s	4.0	6.5	8.3	11.5	14.3	ASTM D445
Viscosity Index	-	156	162	150	165	152	ASTM D2270
Density at 15 °C	Kg/m ³	838.0	854.0	864.0	878.0	876.0	ASTM D4052
Flash Point (open)	°C	150	210	220	225	230	ASTM D92
Pour Point	°C	-39	-39	-36	-36	-21	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 HV15, 32, 46, 68, 100.
- Opt-Max Hydonix HV15, 32, 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 HV15, 32, 46, 68, 100 must be clearly labelled properly during the entire transportation process to prevent the risk of mixing with other petro-chemical product.

Health and Safety

Opt-Max Hydonix HV15, 32, 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 HV15, 32, 46, 68, 100 Material Safety Data Sheet.

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