cyclon® ENGINEERED TO PERFORM

TECHNICAL PRODUCT SHEET

HYDRAULIC RX

ISO 10, 22, 32, 46, 68, 100, 150

DESCRIPTION

HYDRAULIC RX series consists of highly refined mineral base oils and special additives meeting the international classification 6743-4 (ISO-L-HM) and offering a wide selection of viscosities. The lubricants are enhanced by special additive treatment to minimize corrosion, oxidation, foaming and machinery wear. Due to their extreme pressure (EP) additives, they are suitable for applications such as in lightly loaded gears, in some variable speed units and bearings. They meet all modern hydraulic systems' filtration requirements (down to 6 micron filters).

APPLICATIONS

The series is suitable for use in industrial and marine hydraulic systems fitted with vane, gear axial and pistons pumps, especially those operating under high pressures and with increased wear protection requirements. They can also be used in lifts, presses, coal mining machinery and various machine components. They comply with pump constructors´ requirements for all the metallurgical materials (excl. silver-plated ones, which require a zinc-free hydraulic lubricant).

SPECIFICATIONS

DIN	51524 Part 2 HLP	Fives Cincinnati	P-68, P-69, P-70
ISO	6743-4 (ISO-L-HM)	AFNOR NFE	48-603 HM
ISO	11158 HM	SS	155434:2015
Bosch Rexroth	RE 90235	SEB	181222
Parker (Denison)	HF-0, HF-1, HF-2 (*Approved*)	JCMAS	HK P041
Danfoss (Eaton)	Brochure 03-401-2010	Danielli	0.000.001 Type 10 & 11
Danfoss (Eaton)	E-FDGN-TB002	CS	GB 11118.1 L-HL & L-HM
Eaton Vickers	I-286-S & M-2950-S	U.S. Steel	126
ASTM	D6258 HM	ZF	TE-ML 07H
SAE	MS1004	ZF	TE-ML 21M

PROPERTIES

HYDRAULIC RX series offer outstanding protection and performance, inhibiting rust and oxidation while providing superior thermal stability and exceptional anti-wear properties. They resist foam formation, ensures rapid air release, and deliver excellent water separation for reliable operation. Fully compatible with common seal materials such as Nitrile, Buna-N, Viton, and Silicone, it also guarantees very good filterability, making it ideal for demanding applications.

BENEFITS

HYDRAULIC RX series ensures reliable protection of metallic surfaces against corrosion and rust while preventing the formation of sludge that can reduce pump life and impair critical component performance. It supports trouble-free operation, enhances system efficiency, and provides long service life with safe handling. Designed to prevent filter blockage, it is suitable for advanced hydraulic systems requiring high cleanliness and operational reliability.

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v1.JAN26

Produced and Packaged in E.U.
cyclon-lpc.com

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PHYSICAL-CHEMICAL CHARACTERISTICS

HYDRAULIC RX	METHOD	ISO 10	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150
Density at 15°C, g/cm^3	ASTM D4052	0.846	0.853	0.870	0.865	0.878	0.886	0.888
Viscosity, Kinematic (cSt) 40°C	ASTM D445	10	22	32	46	68	100	150
Viscosity, Kinematic (cSt) 100°C	ASTM D445	2.7	4.4	5.5	6.9	8.9	11.5	15.0
Viscosity index	ASTM D2270	105	106	105	105	103	102	100
Flash point, COC, °C	ASTM D92	155	200	210	230	240	256	260
Pour point, °C	ASTM D97	-39	-30	-30	-30	-24	-21	-18
Copper corrosion	ASTM D 130	1a	1a	1a	1a	1a	1a	1a
Foam Tendency / Stability, ml Sequence I Sequence II Sequence III	ASTM D892	 10 / 0 10 / 0 10 / 0	 10 / 0 10 / 0 10 / 0	 20 / 0 20 / 0 20 / 0	 20 / 0 20 / 0 20 / 0	 30 / 0 30 / 0 30 / 0	 30 / 0 30 / 0 30 / 0	 30 / 0 30 / 0 30 / 0
Demulsibility, min.	ASTM D1401	5	5	10	10	20	20	20
Air release, min	ASTM D3427	-	3.0	3.5	3.8	4.0	6.5	-

The above mentioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.

HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).

USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.