cyclon® ENGINEERED TO PERFORM

TECHNICAL PRODUCT SHEET

HYDRAULIC PURE

ISO 32, 46

DESCRIPTION

HYDRAULIC PURE series are premium, high-cleanliness anti-wear hydraulic oils designed for modern high-pressure industrial hydraulic systems where particle contamination control is critical. They are formulated from high-quality base oils and a balanced additive system to provide excellent wear, corrosion, and oxidation protection. The formulation ensures good air release, effective water separation, low foaming tendency, and reliable performance over a wide temperature range, supporting clean operation, high system efficiency, and extended service life.

APPLICATIONS

HYDRAULIC PURE is recommended for high-pressure industrial hydraulic systems where exceptional cleanliness and reliability are essential, including precision manufacturing equipment, servo-controlled systems, automated production lines, and sensitive hydraulic units operating under heavy-duty conditions. It is particularly suitable for applications where particle contamination control, long service life, and consistent performance are critical.

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	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 PURE series offers outstanding protection and performance, effectively inhibiting rust and oxidation while providing excellent thermal stability and superior anti-wear protection under demanding operating conditions. The formulation resists foam formation, ensures rapid air release, and delivers excellent water separation, supporting reliable and efficient system operation. It is fully compatible with common seal materials, including Nitrile (NBR), Buna-N, Viton (FKM), and Silicone, helping to maintain seal integrity and reduce leakage risk. In addition, the product guarantees very good filterability, making it ideally suited for high-cleanliness and demanding hydraulic applications.

BENEFITS

HYDRAULIC PURE series ensures reliable protection of metallic surfaces against corrosion and rust, while preventing sludge formation that can shorten pump life and impair the performance of critical components. It supports trouble-free operation and improved system efficiency, contributing to long service life and safe handling. Designed to prevent filter blockage, the product is ideally suited for advanced hydraulic systems requiring high cleanliness, reliability, and consistent operational performance.

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PHYSICAL-CHEMICAL CHARACTERISTICS

HYDRAULIC PURE	METHOD	ISO 32	ISO 46
Density at 15°C, g/cm^3	ASTM D4052	0.870	0.865
Viscosity, Kinematic (cSt) 40°C	ASTM D445	32	46
Viscosity, Kinematic (cSt) 100°C	ASTM D445	5.5	6.9
Viscosity index	ASTM D2270	105	105
Flash point, COC, °C	ASTM D92	210	230
Pour point, °C	ASTM D97	-30	-30
Copper corrosion	ASTM D 130	1a	1a
Foam Tendency / Stability, ml Sequence I Sequence II Sequence III	ASTM D892	 20 / 0 20 / 0 20 / 0	 20 / 0 20 / 0 20 / 0
Demulsibility, min.	ASTM D1401	10	10
Air release, min	ASTM D3427	3.5	3.8
ISO Cleanliness	ISO 4406	17/15/12	17/15/12

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.