PRODUCT DATA SHEET

Rev. 001/Effective Date: November 18, 2026



DUCKHAMS

ZIRCON Z32, 46, 68, 100 ANTI-WEAR

DUCKHAMS ZIRCON Z ANTI-WEAR is a premium quality, anti-wear hydraulic fluid designed to meet the requirements of fluid power system. ZIRCON Z ANTI-WEAR is formulated with high quality base oil and selected additives to provide superior performances in filterability, pump wear protection in dry and wet conditions and oxidation stability.

Meet Performance :

- DENISON HF-0 / HF-1 / HF-2
- DIN 51525 Part I (HL)
- DIN 51524 Part 2 (HLP)
- ISO 11158 (HM)
- ASTM D6158 (HM)
- AFNOR NF E 48-603 (HM)
- AFNOR NF E48-690 AND 48-691 Filterability
- Bosch Rexroth RDE-90220 (HLP)
- China GB 111118.1-2011 HM
- Cincinnati Machine P-69
- Eaton Brochure 694/03-401-Rev 2010
- Eaton E-FDGN-TB002-E (SFU)
- Eaton Vickers I-286-S
- Eaton Vickers M-2950-S (35VQ25)
- GM LS2
- US Steel 126, 127, 136 (AIST 126, 127)
- ZF TE-ML 07M, 21M

Applications :

- All hydraulics systems with gear, vane or piston pumps.
- Hydraulics of mobile and construction equipment.
- Plastic injection molding machines - Industrial circulating systems.

Features and Benefits :

- Excellent anti-wear properties and minimize metal-to-metal contact.
- Excellent protection on corrosion from both copper and steel.
- Minimize rust problems by very fast release of water.
- Good oxidation stability, provide good service life in high pressure service.
- Good foam inhibitor, minimize foaming and aeration problems.
- This product designed for major pump manufacturers of both vane and piston pumps.

These descriptions are typical of current production. Whilst future production will conform to Duckhams' specification, variations in there description may occurs.

The information contained herein is correct to the best of our knowledge. The recommendations or suggestions contained in this bulletin are made without guarantee or representation as to results. We suggest that you evaluate these recommendations and suggestions in your own laboratory prior to use.

Our responsibility for claims arising from breach of warranty, negligence or otherwise is limited to the purchase price of the material. Freedom to use any patent owned by Duckhams or others is not to be inferred from any statement contained herein.

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6/69 Yan Phaholyothin Road Phyathai, Phyathai, Bangkok 10400

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Typical Properties :

Properties	Test Method	Typical value			
ISO		32	46	68	100
Appearance	Visual	Bright & Clear	Bright & Clear	Bright & Clear	Bright & Clear
ASTM Color	ASTM D1500	L 1.0	L 1.0	L 1.0	L 1.5
Density @15°C, g/cm^3	ASTM D4052	0.8858	0.8809	0.8850	0.8891
Density @30°C, g/cm^3	ASTM D4052	0.8680	0.8715	0.8756	0.8797
Kinematic Viscosity @40°C, cSt.	ASTM D445	34.73	46.93	67.17	100.7
Kinematic Viscosity @100°C, cSt.	ASTM D445	5.714	6.880	8.654	11.24
Viscosity Index	ASTM D2270	104	101	100	96
Flash Point by COC, °C	ASTM D92	220	226	232	252
Pour Point, °C	ASTM D5950	-6	-6	-6	-6
Foaming: Seq. I,II, III (Tendency/Stability)	ASTM D892	0/0, 10/0, 0/0	0/0, 10/0, 0/0	0/0, 10/0, 0/0	0/0, 10/0, 0/0

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