

PETRONAS HIDRAULIK FZ

High Performance Zinc Free Hydraulic Oils

Petronas Hidraulik FZ series are premium quality ashless anti-wear hydraulic fluids specially designed to provide exceptional performance in hydraulic systems subjected to severe operating conditions.

They are formulated from premium quality base oils and zinc free additives technology to provide exceptional protection against wear and corrosion, enhanced thermal and oxidation stability, and resistance to rusting and foaming. They are available in ISO 32 through ISO 150 viscosity grades.

Applications

Recommended for the lubrication of :

- All heavy-duty hydraulic applications (mobile and stationary) requiring excellent wear protection.
- All hydraulic pumps designs including vane, gear, and axial and radial piston pump including pumps containing silver plated components.
- Plain and anti-friction bearings used in electric motors.
- Gear sets requiring non-EP gear oils
- Automated machine tools, presses, diecasting machines, circulating systems and hydraulic control systems.

Customer Benefits

- Excellent wear protection at all operating conditions.
- Superior thermal and oxidation stability to resist oil degradation and thickening for longer oil service life.
- Rapid water separation, excellent air release and anti-foam properties to ensure trouble-free operation.
- Excellent filterability
- Zinc free - Compatible with yellow metals

Specifications

- DIN 51524 (part 2)
- Denison HF-0, HF-1, HF-2
- AFNOR NFE 48603 (HM), NFE 48-690 (dry), NFE 48-691 (wet) filtration tests
- Sperry Vickers I-286-S, M-2950-S
- Cincinnati Milacron P-68, P-69 & P-70

Product Typicals

Characteristics	ISO Viscosity Grade				
	32	46	68	100	150
Density @ 15 °C, kg/l	0.876	0.881	0.886	0.891	0.891
Pour Point, °C	-27	-27	-24	-21	-24
Flash Point, °C	204	218	228	242	258
Kinematic V iscosity, cSt					
@ 40 °C	33.2	46.8	70.5	101.4	149.8
@ 100 °C	5.4	6.7	8.6	11.1	15.1
Viscosity Index	97	97	96	96	100
TAN, mg KOH/gm	0.12	0.12	0.12	0.13	0.13
Air Release Value, min	3.4	4.3	9.6	6.5	2.4
Foaming characteristics, ml					
Sequence I	10/0	10/0	0/0	0/0	0/0
Sequence II	10/0	10/0	0/0	0/0	0/0
Sequence III	10/0	10/0	0/0	0/0	0/0
Water Separability	40/40/0 (10)	40/40/0 (15)	40/40/0 (15)	40/40/0 (5)	40/40/0 (10)

Customer Advice

For further assistance on product MSDS, recommendation or technical queries, please liaise with the regional technical services engineer or contact HQ technical engineers.