

SAMIC HYDRA HYD ZF series

High Performance Zinc Free - Ashless Hydraulic fluids



Product Data Sheet

Product Description

SAMIC HYDRA HYD ZF range of lubricants are supreme performance Zinc Free Ashless anti-wear hydraulic oils formulated with high quality base stocks and advanced additive technology. They are designed to work efficiently in hydraulic systems operating under severe conditions, where high levels of anti-wear and oil film strength protection are desired. Moreover, they are also designed to work in systems where high hydrolytic stability is required, even in presence of high moisture content in hydraulic systems.

Illustrates reduced environmental impact in the event of leak or accidental spillage, when compared to conventional zinc-based hydraulic fluids. This is achieved by using zinc-free anti-wear technology and low sulfur base oils. These oils are classified as 'not harmful' to freshwater and marine invertebrates when tested as water-accommodated fractions (WAFs) according to OECD and EPA test guidelines. For applications that experience wide temperature variations please refer 'SAMIC HYDRA HYD HVI ZF series'.

Features & Benefits

- Outstanding hydrolytic, thermal & oxidation stability helps in extending life of oil and filter.
- Excellent demulsibility property of oil protects hydraulic systems from small quantities of moisture and also separates readily from larger quantities of water.
- Excellent anti-wear properties and outstanding film strength provides exceptional equipment protection, that not only results in fewer breakdowns but also helps improve production efficiency.
- Excellent protection from rust and corrosion of multi-metallurgy system components, especially in Hydraulic systems with Silver (Ag) components.

Specifications

SAMIC HYDRA HYD ZF series meets or exceeds following International and Builder specifications:

- DIN 51524 Part-2 HLP Type
- Cincinatti Milacron P68, P69, P70
- Denison HF-0, HF-1, HF-2
- Bosch Rexroth RE 90220
- ASTM D6158 & SAE MS 1004
- ISO 11158 (HM fluids)
- VICKERS M-2950S, -I-286-S
- GM LS-2 & Conestoga Pump Test ISO 20763

Applications

SAMIC HYDRA HYD ZF series are suitable for use in Hydraulic systems of Industrial and Mobile equipment.

- Suitable for use in Marine hydraulics, machine tools, mould injection machines and hydraulic presses.
- Applications where anti-wear lubricant is required: low charged gears, bearings, air compressors etc.,

Typical Characteristics

SAMIC HYDRA HYD ZF	Test Method	Units	22	32	46	68	100	150
ISO Viscosity Grade	ISO 3448	-	22	32	46	68	100	150
Density @ 15 °C	ASTM D 4052	gm/cc	0.864	0.870	0.878	0.880	0.887	0.894
Viscosity @ 40 °C	ASTM D 445	cSt	22.9	32.4	46.8	68.9	100.8	150.2
Viscosity @ 100 °C	ASTM D 445	cSt	4.4	5.38	6.78	8.72	11.15	14.56
Viscosity Index	ASTM D 2270	-	100	98	98	98	95	95
Pour Point	ASTM D 97	°C	-30	-27	-27	-21	-21	-18
Flash Point (COC)	ASTM D 92	°C	204	224	230	234	246	272
Copper Strip Corrosion	ASTM D 130	-	1A	1A	1A	1A	1A	1A
Rust Characteristics Proc B	ASTM D 665	-	Pass	Pass	Pass	Pass	Pass	Pass
Foam Seq I,II,III	ASTM D 892	ml/ml	10/0	10/0	10/0	10/0	10/0	10/0

The above figures are typical of blends with normal production tolerance and do not constitute a specification.