

SPX HYDRAULIC

ANTI-WEAR HYDRAULIC OIL

SPX Hydraulic is an anti-wear hydraulic oil for use in various industrial and mobile hydraulic systems and applications. It meets the performance requirements of all major pump manufacturers, and is recommended for use in all types of high-pressure, high-speed hydraulic pumps. SPX Hydraulic is formulated with high-quality base oils and a zinc anti-wear and anti-oxidant additive package to protect hydraulic system components from wear and to minimize deposit formation providing long service life.

Advantages

- Good oxidation resistance and thermal stability
- Excellent wear protection for hydraulic pumps and motors
- Protects against rust and corrosion
- Good water-separating properties
- Good foam resistance

Applications

- Hydraulic systems on industrial, mobile, and marine equipment
- Automated machine tools
- Elevators, hoists, presses, and floor jacks
- Marine cargo winches and steering systems
- Mobile construction equipment
- Service station lifts
- Chain drives
- Lightly to moderately loaded enclosed industrial gear drives that do not require a compounded or extreme-pressure (EP) gear oil

Specifications

SPX Hydraulic meets the following industry and OEM specifications:

- Bosch Rexroth RE 90220, Type HLP
- Parker Hannifin (Denison) HF-0, HF-1, HF-2
- Eaton-Vickers I-286-S, M-2950-S, 35VQ25A anti-wear performance (brochure 03-401-2010 Rev 1, ISO 32, 46, and 68)
- Fives Cincinnati P-68 (ISO 32), P-70 (ISO 46), P-69 (ISO 68)



Industrial



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TYPICAL PROPERTIES

ISO Grade	32	46	68	100
Specific Gravity @ 60°F	0.862	0.869	0.874	0.868
Density, lbs/gal @ 60°F	7.18	7.24	7.27	7.24
Color, ASTM D1500	0.5	0.5	0.5	2.5
Flash Point (COC), °C (°F)	220(428)	226(439)	235(455)	260(500)
Pour Point, °C (°F)	-40(-40)	-37(-35)	-36(-33)	-17(0)
Viscosity				
cSt @ 40°C	30.4	43.7	64.6	96.3
cSt @ 100°C	5.2	6.5	8.4	11.0
Viscosity Index	98	98	99	96
Demulsibility, ASTM D1401, minutes to pass	15	15	10	10
Foam Seq. 1, ASTM D892, mL	0/0	0/0	0/0	0/0
Rust Test, ASTM D665	Pass	Pass	Pass	Pass
Copper Corrosion, ASTM D130	1b	1b	1b	1b
FZG Scuffing Test, ASTM D5182, Failure Load Stage	12	12	12	12
Zinc, wt%	0.043	0.043	0.043	0.043
Oxidation Stability, TOST, ASTM D943, hours	>5,000	>5,000	>5,000	>5,000

Minor variations in typical properties data are to be expected in normal manufacturing.

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet (SDS).

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