



SPX 800 SERIES AW HYDRAULIC OIL

PREMIUM ANTI-WEAR HYDRAULIC OIL

SPX 800 Series AW Hydraulic Oil is a premium 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 800 Series AW Hydraulic Oil 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.

Features & Benefits

- Good oxidation resistance and thermal stability
 - Excellent wear protection for hydraulic pumps and motors
 - Protects against rust and corrosion
 - Excellent 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 800 Series AW Hydraulic Oil meets the following industry and OEM specifications:

- Bosch Rexroth RE 90220, Type HLP
 - DIN 51524 Part 2, Anti-wear Hydraulic Oils, 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)
 - German Steel Industry SEB 181222
 - ISO 11158:1997, Family H (Hydraulic Systems), Type HM
 - U.S. Steel 127
-

SPX 800 SERIES AW HYDRAULIC OIL



TYPICAL PROPERTIES

SPX SERIES	832	846	868	8100
ISO Grade	32	46	68	100
Specific Gravity @ 60°F	0.862	0.869	0.874	0.878
Density, lbs/gal @ 60°F	7.18	7.24	7.27	7.31
Color, ASTM D1500	0.5	0.5	0.5	0.5
Flash Point (COC), °C (°F)	216(421)	227(441)	238(460)	252(486)
Pour Point, °C (°F)	-37(-35)	-37(-35)	-33(-27)	-32(-26)
Viscosity				
cSt @ 40°C	32.0	46.0	68.0	100
cSt @ 100°C	5.4	6.8	8.7	11.0
SUS @ 100°F	150	214	315	463
SUS @ 210°F	44.0	48.5	54.9	62.8
Viscosity Index	102	102	99	94
Acid Number, ASTM D974, mg KOH/g	0.38	0.38	0.38	0.38
FZG Scuffing Test, ASTM D5182, Failure Load Stage	12	12	12	12
Oxidation Stability, TOST, ASTM D943, hours	>2,000	>2,000	>2,000	>2,000
Rust Test, ASTM D665 A&B	Pass	Pass	Pass	Pass
Zinc, wt %	>0.03	>0.03	>0.03	>0.03

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).