



Product Data Sheet

ECOSE® AW HYDRAULIC OILS

Excellent quality hydraulic oils

Highly reliable, zinc-containing industrial anti-wear hydraulic oils formulated from high-quality base oils and carefully selected performance additives that offer full protection against oxidation degradation, rust, corrosion and wear. They are designed for use in high pressure, high speed hydraulic pumps used in industrial and mobile hydraulic systems. These high performing hydraulic oils meet and often exceed the performance requirements of many global industry standards viz. ISO 11158 HM, DIN 51524 Part 2-HLP and AFNOR NF E 48-603 (HM).

Features and Benefits

- Excellent anti-wear property results in longer pump and component life
- Improved air release and foam control minimizes chances of pump cavitation
- Increased protection against rust and corrosion
- Very good hydrolytic stability
- Fast water separation

Applications

- Bosch Rexroth
- U.S. Steel 126, 127, 136
- Parker Dennison HF-0, HF-1, HF-2
- Machine tools, grinders
- Non-detergent oil for compressors
- DIN 51524, Part 2
- AFNOR E 48-603/ISO 11158
- Vane, gear, and axial piston hydraulic pumps
- Die Casting Machines
- Severe service in marine and mobile hydraulic units

Typical Properties

ISO Viscosity Grade	Test Method	22	32	46	68	100	150
Product Code		534225	534227	534229	534231	534232	534233
API Gravity, 60°F	ASTM D-4052	34.7	32.5	31.4	30.6	29.5	28.9
Viscosity, cSt @ 40°C	ASTM D-445	23.4	32.0	43.5	65.4	97.6	158.0
Viscosity, cSt @ 100°C	ASTM D-445	4.7	5.7	7.0	9.1	11.8	16.2
Viscosity Index	ASTM D-2270	118	121	120	116	110	107
Color	ASTM D-1500	L1.0	L1.5	L2.0	L3.0	L3.0	L4.5
Water Separability ¹	ASTM D-1401 ¹	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0
Pour Point, °F (°C)	ASTM D-5949	-44 (-42)	-33 (-36)	-33 (-36)	-27 (-33)	7 (-14)	5 (-15)
Flash Point, COC, °F (°C)	ASTM D-92	410 (210)	420 (216)	430 (221)	450 (232)	455 (235)	475 (246)
Oxidation Stability, hours	ASTM D-943	+6,000	+6,000	+6,000	+4,000	+3,000	+2,500

These properties are typical of current production, minor variations are to be expected in normal manufacturing.

¹ - 30 minutes max. separation time to <3mls emulsion. Test temperature is 130°F for grades up through ISO 68.

Test temperature is 180°F for ISO 100 and 150.

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