



Rozep AW Hydraulic Oils

High Pressure EP Hydraulic Oil

Rozep AW Hydraulic Oils are superior quality anti-wear hydraulic oils formulated from the finest high quality base stocks and are further fortified with high performance additives to enhance their capability. They are recommended for use in high pressure hydraulic systems which utilize vane, piston or gear pumps in addition are rust and oxidation (R&O) inhibited oils providing excellent performance in hydraulic systems, compressors applications where long lubricant service life is required and other applications where a high quality anti-wear type oil is required. Their superior oxidation resistance enables extended oil drain intervals, with significantly reduced sludge, varnish and carbon deposits on internal parts, pumps, and other internal components.

Rozep AW Hydraulic Oils considerably reduce the necessity of cleaning and other maintenance, provide excellent protection against wear, as well as increase productivity and provide excellent filtration characteristics. They have excellent demulsification ability to prevent water from deteriorating internal components.

Rozep AW Hydraulic Oils meet the performance requirements of Hagglands-Denison, Trinova Vickers, Cincinnati Milacron, Lee Norse, Jeffery and others.

Product Features:

- Superior additive package with excellent anti-wear protection.
- High performance additive system with anti-oxidant, anti-foam agents, rust and corrosion inhibitors.
- Excellent protection against fluid deterioration with high base oil and additive performance.
- High resistance to foaming and excellent air release.
- Protects metal surfaces from the damaging effects of entrained water
- Protects against the corrosive effects of hydrogen-sulfide and other sour gas components
- Allows quick release of entrained gasses



Customer Benefits:

- Exceeds performance requirements for manufacturers' pump specifications, provides longer life and performance.
- Provides superior protection against varnishing, rust, and excessive wear while extending equipment life and lowering maintenance costs.
- Less maintenance and longer life of equipment and lower repair costs.
- Prevents pump cavitations, noisy and erratic, providing more efficient operation.
- Increased H₂S protection
- Protection against entrained water

Applications:

- **Rozep AW Hydraulic Oils** meet or exceed most pump manufacturer's specifications and may be used as a premium hydraulic fluid, compressor oil, and other applications as recommended where superior performance of an anti-wear/rust and oxidation performance type fluid may be needed. These high performance hydraulic and circulating lubricants are designed for applications where long lubricant service life is required. They are also recommended for use in other applications which require a long life premium anti-wear fluid such as in turbines, pumps, machine tools, gear drives, circulating oil systems, oil mist systems, etc.

Specific applications include:

- Land-based and marine steam turbine, hydro turbine and some gas turbine circulation systems, including pumps, valves and other ancillary equipment requiring anti-wear additives
- Continuous service in plain and roller bearings and parallel shaft gearing
- Turbines with oil supplied by splash, bath, ring oiling or other mechanical means



Product Data Sheet



Typical Properties

Rozep AW Hydraulic Oils					
Product Number	225	226	227	228	Test Method
ISO Grade	22	32	46	68	
Color ASTM	>1.0	>1.0	>1.0	>1.5	ASTM D1500
Viscosity @ 40°C	22	31	45	66	ASTM D445
Viscosity @ 100°C	4.4	5.2	6.6	8.4	
Viscosity @ 100°F	120	160	232	342	ASTM D445
Viscosity @ 210°F	41	44	48	55	
Viscosity Index	95	97	96	96	ASTM D2270
Flash Point, °C	233	241	235	244	ASTM D92
Pour Point, °C	-24	-24	-21	-18	ASTM D97
Gravity, API	33.0	31.9	30.7	29.6	ASTM 4052
Lbs./Gal	7.162	7.213	7.263	7.315	
Density	0.8595	0.8656	0.8714	0.8742	
Copper Corrosion	1b	1b	1b	1b	
TOST Hours	6000	6000	6000	6000	

These properties are typical of the current production. Variations that do not affect product performance are to be expected depending on blending and manufacturing locations. The information above is subject to change without notice.

Health and Safety:

This product is unlikely to have any adverse health implications or safety hazards when used for its intended application. Avoid contact with skin, use resistant gloves when handling used oil. If skin comes in contact wash immediately with soap and water. For complete information on safe handling and product characteristics please refer to the Safety Data Sheet (SDS) found on our website. www.royalmfg.com or call (918)-584-2671.





Typical Properties

Rozep AW Hydraulic Oils

Product Number	229	230	231	232	233	Test Method
ISO Grade	100	150	220	320	460	-
Color ASTM	>2.0	>3.5	>4.5	>4.5	>5.0	ASTM D1500
Viscosity @ 40°C	101	150	220	320	460	ASTM D445
Viscosity @ 100°C	11.1	14.5	18.0	24.0	29.0	
Viscosity @ 100°F	528	798	1165	1705	2475	ASTM D445
Viscosity @ 210°F	64	78	93	120	142	
Viscosity Index	94	94	97	96	96	ASTM D2270
Flash Point, °C	259	277	299	314	327	ASTM D92
Pour Point, °C	-15	-15	-18	-18	-21	ASTM D97
Gravity, API	28.6	28.0	28.1	27.6	27.1	ASTM 4052
Lbs./Gal	7.362	7.390	7.386	7.409	7.431	-
Density	0.8747	0.8787	0.8864	0.8892	0.8918	-
Copper Corrosion	1b	1b	1b	1b	1b	-
TOST Hours	6000	6000	6000	6000	6000	-

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Packaging options:



1 Gal Jugs



5 Gal Kegs



55 Gal Drums



275/330 Gal Totes



>2000 Gal Bulk