



PRODUCT DATA SHEET

Pennwood Hydraulic AW Series

The **Pennwood Hydraulic AW Series** are highly refined, premium quality anti-wear hydraulic oils recommended for use in a wide range of applications, including hydraulic systems, mining equipment, and lightly loaded gear sets, as well as for general lubrication.

These high performance products are designed for use in piston, gear pumps, and vane pumps used in industrial and mobile hydraulic systems. PENNWOOD HYDRAULIC AW products provide exceptional wear protection for pumps, motors, and other hydraulic system components. They have good oxidation resistance, rust and corrosion protection and resistance to foaming.

Pennwood Hydraulic AW Series oils meet or exceed the following specifications Denison HF-2, Vickers I-286-S, Cincinnati Milacron P-68, P-69, P-70.

Typical Properties	32	46	68	100	150	220
Gravity, API (D287)	31.6	30.3	28.2	30.2	27.5	27.2
Viscosity, ASTM D 445, cSt @ 40° C	33.8	45.3	68.2	103.7	152.1	225.4
cSt @ 100° C	5.3	6.8	8.8	11.3	14.5	18.2
Viscosity Index, ASTM D 2270	99	99	99	97	94	94
Demulsibility, 54.5° C, Min	20	20	20	20	20	20
Oxidation Stability, TOST (D943)	4,000	4,000	4,000			
Color, (D1500)	1.0	1.5	1.5	3.0	3.5	4.0
FZG Pass, Load Test	10.0	10.0	10.0	10.0	10.0	10.0
Zinc, % wt	0.027	0.027	0.027	0.027	0.027	0.027
Copper Corrosion 3 hrs @ 100° C	1A	1A	1A	1A	1A	1A
Rust Test (D665)	Pass	Pass	Pass	Pass	Pass	Pass
Flash Point, COC, ASTM D 92, ° F	406	409	409	414	448	468
Pour Point, ASTM D 97 (°C)	-30	-30	-26	-15	-9	-9

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