



VESTAN AW **(Food Grade Hydraulic Oils)**

VESTAN AW is a series of high performance, colorless food grade antiwear hydraulic oils designed for applications where the oil may come in incidental contact with edible products or food packaging. **VESTAN AW** oil meets the requirements of FDA Specification 21 CFR 178.3570 and the oils are listed as H-1 lubricants by USDA and by the NSF for use in federally inspected meat and poultry plants. These products may be used as lubricants or anti-rust films on equipment and machine parts in locations where there is exposure of the lubricated parts to edible products.

VESTAN AW oil is blended from highly refined white mineral base oils and non-toxic performance additives to provide excellent hydraulic component protection and longevity. Its outstanding anti-wear additive package protects high-pressure pumps operating above 1,000 psi and satisfies the requirements of major hydraulic pump manufactures. **VESTAN AW** oil also contains potent oxidation inhibitors to minimize sludge and varnish deposits and maximize oil life. It is colorless, odorless and tasteless.

VESTAN AW fluid is low-sheen oil with low toxicity towards aquatic life. The mineral oil base used in these fluids is inherently biodegradable.

VESTAN AW oil is specially formulated to perform in the presence of water. It passes

the ASTM D-665 Rust Test using both distilled water and synthetic seawater. It also exhibits good demulsibility and rapidly separates water.

BENEFITS:

- USDA H-1 APPROVED
- NSF REGISTERED
- ODORLESS AND TASTELESS
- EXCELLENT WEAR PROTECTION
- RESISTANCE TO OXIDATION, SLUDGE AND VARNISH DEPOSITS
- RAPID WATER SEPARATION

APPLICATIONS:

VESTAN AW oil is recommended for a wide variety of applications including high and low pressure hydraulic systems, bearings, gears, air compressors, circulation systems and other applications that require a high quality food grade lubricating oil. It is authorized by USDA as H-1 lubricants for use where incidental contact with food products may occur, such as bakeries, container manufacturing plants, bottlers, canneries and water utilities.



VESTAN AW

(Food Grade Hydraulic Oils)

TYPICAL CHARACTERISTICS

ISO Viscosity Grade	32	46	68	100	150	220	320	460
Product Code	16410	16411	16412	16413	16414	16415	16416	16417
API Gravity (ASTM D-1298)	32.2	32.0	31.7	30.9	30.1	30.1	29.1	29.0
Viscosity (ASTM D-445):								
cSt @ 40°C	35.2	46.0	70.1	96.0	138	227	318	479
cSt @ 100°C	5.6	6.8	8.9	11.7	14.7	19.4	23.8	29.9
SUS @ 100°F	178	240	365	498	719	1202	1694	2459
SUS @ 210°F	45	49	56	66	79	99	118	147
Viscosity Index (D-2270)	98	98	98	110	107	97	95	94
Pour Point (ASTM D-97)								
°F	0	0	0	10	10	10	10	10
(°C)	(-18)	(-18)	(-18)	(-12)	(-12)	(-12)	(-12)	(-12)
Flash Point (ASTM D-92)								
°F	420	440	465	425	425	390	385	415
(°C)	(216)	(226)	(241)	(218)	(218)	(199)	(196)	(213)
Color (ASTM D-1500)	L0.5	L0.5	L0.5	L0.5	L0.5	L0.5	L0.5	L0.5
Color (Saybolt D-156)	25	25	25	25	25	25	25	25
Color (Visual)-water white	pass	pass	pass	pass	pass	pass	pass	pass
Turbine Oil Oxidation Test								
Hrs to 2.0 TAN (ASTM D-943)	10000+	10000+	8000	8000	6000+	6000+	6000+	6000+
Rust Resistance (ASTM D-665)								
Distilled Water	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Synthetic Sea Water	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
USDA Classification	H-1	H-1	H-1	H-1	H-1	H-1	H-1	H-1

The above data is subject to usual manufacturing variation. For more information and availability, call 1-800-442-LUBE.
4/13/2007