

# product data sheet

## **VARPRESS AW RANGE**

### **High performance hydraulic oil**

**VARPRESS AW** hydraulic oils are manufactured from premium synthetic base stocks and high quality solvent refined base oils with specially selected additives and friction modifiers to produce a lubricant with outstanding durability. It demonstrates excellent frictional stability and offers extended fluid life even when under the most severe conditions.

**VARPRESS AW** hydraulic oils contain Zinc and Phosphorus anti-wear additives making them ideal for severe applications.

**VARPRESS AW** hydraulic oils are suitable for use in turbine or closed circulation lubricating systems thanks to their excellent stability. Varpres hydraulic oils are NOT suitable for systems containing silver or silver plated parts and components

### **Features and Benefits**

Anti-wear properties	Excellent thermal stability
Resistant to oxidation	Good water separation
Low pour points	Resistance to sludge formation
Light colour	Non corrosive to steel and copper alloys
Formulated on high quality mineral oil	Meets or exceeds industry standards

### **Specifications**

DIN 51524 Parts 1 and 2  
ISO 11158 (HL, HM, HV)  
AFNOR NF ISO 11158 (HL, HM, HV)  
Eaton (Vickers) 1-286-S  
US Steel 126  
US Steel 127

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Typical Data									
ISO Grade			15	22	32	46	68	100	150
Parameter	Unit	Method							
<b>Kinematic Viscosity</b>									
<b>KV40</b>	mm <sup>2</sup> /Sec	ASTM-D445	15.00	22.00	32.00	46.00	68.00	100.00	150.00
<b>KV100</b>	mm <sup>2</sup> /Sec	ASTM-D445	3.42	4.30	5.37	6.77	8.70	11.36	15.00
<b>Viscosity index</b>	-	ASTM-D2270	99	99	99	99	99	99	99
<b>Density @ 15.5°C</b>	g/cm <sup>3</sup>	ASTM-D4052	0.845	0.848	0.848	0.850	0.882	0.884	0.890
<b>Flashpoint</b>	°C	ASTM-D92	180	200	204	206	208	212	218
<b>Pour point</b>	°C	ASTM-D97	-33	-33	-33	-31	-31	-27	-24
<b>Oxidation</b>	Hours	ASTM-D943	>2400	>2400	>2400	>2400	>2400	>2400	>2400
<b>Copper Corrosion</b>	-	ASTM-D130	1a	1a	1a	1a	1a	1a	1a
<b>Air Release</b>	Minutes	ASTM-D3427	-	-	4 min	6 min	6 min	6 min	6 min
<b>FZG failure load stage</b>		DIN 51354-2	12	12	12	12	12	12	12

Varol Metalworking		Varol Machine Lubricants	
<b>Varcut</b>	Neat cutting oils, high performance, extensive range of viscosities	<b>Varlube S</b> Viscosity 32 - 320	Slideway
<b>Varform</b>	Comprehensive range of neat forming oils, including water extendable versions and vanishing oils	<b>Varmulti</b> Viscosity 32 - 680	Multilube - Slideway, Gear, Hydraulic
<b>Varclean</b>	Aqueous based wash fluids, surface cleaners and solvent degreasers	<b>Vargear</b> Viscosity 68 - 460	Industrial Gear
<b>Varcool &amp; Vargrind</b>	Comprehensive range of high performance water soluble fluids. Low, medium, high oil content and synthetics	<b>Varpress</b> Viscosity 5 - 150	Hydraulic oil range covering zinc containing, zinc free and high VI