



# Hydra Part BD Range

## High performance biodegradable hydraulic fluid

**VARPRESS BD** hydraulic oils are high quality blend of naturally occurring esters and ashless, anti-wear, anti-oxidant, anti-foam and anti-corrosion additives. These products have a high-viscosity-index, are virtually non-toxic, possess excellent oxidation and corrosion resistance.

**VARPRESS BD** are to be used in hydraulic systems where biodegradable fluids are preferred for environmental reasons with recommended operating temperatures between  $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ .

### Features and Benefits

- Fully biodegradable
- Compatible with mineral oils
- High content of renewable resources
- High oxidation stability
- Ashless technology

### Specifications

DIN 51524 Part 3(HVLP) \*\*

ISO 11158 (HV) \*\*

\*\* Excludes ASTM D943 requirements



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Typical Data						
ISO Grade			32	46	68	
Parameter	Unit	Method				
Kinematic Viscosity						
<b>KV40</b>	mm <sup>2</sup> /Sec	<b>ASTM-D445</b>	32.00	46.00	68.00	
<b>KV100</b>	mm <sup>2</sup> /Sec	<b>ASTM-D445</b>	7.28	9.69	13.37	
<b>Viscosity index</b>	-	<b>ASTM-D2270</b>	202	202	202	
<b>Density @ 15.5°C</b>	g/cm <sup>3</sup>	<b>ASTM-D4052</b>	0.900	0.925	0.930	
<b>Flashpoint</b>	°C	<b>ASTM-D92</b>	> 200	> 200	> 200	
<b>Pour point</b>	°C	<b>ASTM-D97</b>	-27	-27	-27	
<b>Copper Corrosion</b>	-	<b>ASTM-D130</b>	1a	1a	1a	
<b>FZG failure load stage</b>		<b>DIN 51354-2</b>	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 -	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