

# product data sheet

## **VARPRESS BDS RANGE**

### **High performance synthetic biodegradable hydraulic fluid**

**VARPRESS BDS** hydraulic fluids are high quality blend of high quality synthetic 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 BDS** hydraulic fluids are to be used in hydraulic systems where biodegradable fluids are preferred for environmental reasons with recommended operating temperatures of between -20°C to 60°C.

#### **Features and Benefits**

Formulated with fully synthetic esters

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			
<b>Kinematic Viscosity</b>					
<b>KV40</b>	mm <sup>2</sup> /Sec	ASTM-D445	32.00	46.00	68.00
<b>KV100</b>	mm <sup>2</sup> /Sec	ASTM-D445	7.44	9.95	13.78
<b>Viscosity index</b>	-	ASTM-D2270	210	210	210
<b>Density @ 15.5°C</b>	g/cm <sup>3</sup>	ASTM-D4052	0.900	0.925	0.930
<b>Flashpoint</b>	°C	ASTM-D92	> 200	> 200	> 200
<b>Pour point</b>	°C	ASTM-D97	-27	-27	-27
<b>Copper Corrosion</b>	-	ASTM-D130	1a	1a	1a
<b>FZG failure load stage</b>		DIN 51354-2	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