

# product data sheet

## **VARCUT 4150**

### **High performance low viscosity extreme pressure neat cutting and grinding oil**

**VARCUT 4150** is an extreme pressure oil developed for use on steel and non-ferrous alloy metals in a wide range of high pressure and performance machining applications. The product is designed for heavy duty general machining and grinding including deep hole boring, broaching and gear manufacturing of ferrous and non-ferrous materials.

**VARCUT 4150** is based on high viscosity index base oils and advanced synthetic esters combined with high performance active sulphur EP and lubricity additives. The product also contains anti-oxidant additives to extend the life of this high performance neat cutting oil.

**VARCUT 4150** will give a number of benefits when machining particularly difficult materials e.g. stainless steel on sliding head machine tools, (Star, Citizen, Index). In addition to those described on this sheet the machine speeds and feeds can be increased which reduces the time taken to complete production runs - which frees machine time to increase machining capacity.

**VARCUT 4150** can be used for all forms of grinding, is suitable for use as a lubricating oil where a viscosity grade of ISO 15 is acceptable.

**VARCUT 4150** is **NOT** suitable for use on yellow metals such as copper and brass.

#### **Features and Benefits**

Very high lubricity	Improved tool life and surface finish
Low viscosity and low drag out	Increased product cycles
High viscosity index	Potential rationalisation product
High flash point	Used in high pressure systems up to 100 bar
Low mist, low odour	Multi metal compatible

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Typical Data			Varcut 4150
Parameter	Unit	Method	
<b>Kinematic Viscosity</b>			
<b>KV40</b>	<b>mm<sup>2</sup>/Sec</b>	<b>ASTM-D445</b>	15.00
<b>Appearance</b>		<b>Visual</b>	Light straw
<b>Density @ 15.5°C</b>	<b>g/cm<sup>3</sup></b>	<b>ASTM-D4052</b>	0.860
<b>Flashpoint</b>	<b>°C</b>	<b>ASTM-D92</b>	180
<b>Ester</b>			Yes
<b>Sulphur (Active)</b>			Yes
<b>Phosphorus</b>			No
<b>Chlorine</b>			No

**Varcut 4150** is designed to be used as supplied and is safe to use on most metals.

**Varcut 4150** should always be stored indoors and protected from extremes of temperature.

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