

# product data sheet

## **VARMULTI RANGE**

### **High quality multifunctional lubricants**

**VARMULTI** lubricants are specially formulated to meet requirements for industrial gearboxes, slideways, hydraulic systems and general lubrication in one product. A range of viscosity grades are available to suit a wide range of applications.

**VARMULTI** lubricants meet the high performance levels currently achieved by conventional single function lubricants in one product. This allows rationalisation of oil products resulting in cost savings from the storage space required, reduced wastage and lower inventory levels

**VARMULTI** lubricants are also suitable for general machine lubrication, traverse screws, small open gears and chains.

### **Features and Benefits**

Multifunctional performance	Formulated on high quality mineral oil
Resistant to oxidation for long service life	Offers protection against machine tool corrosion
Meets or exceeds industry standards	Reduction in failures due to application of wrong lubricant
Contains EP additives allowing use in heavy or shock loaded gear units	
Prevents stick / slip on slideways allowing improved machining tolerances	

### **Specifications**

Slideway oils according to :	Cincinnati Milacron P-50
Industrial gear oils according to :	U.S. Steel 224, 222, 223 DIN 51517, part 3 (CLP ISO 12925 SEB 181 226 AGMA 250.04 (EP Gear Oils), AGMA 9005-D94 (EP Gear Oils)
Hydraulic oils according to :	DIN 51524, Teil 2 (HLP) AFNOR NF E 48-603 (HM)

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## Typical Data

ISO Grade			32	46	68	100	150	220	320	460
Parameter	Unit	Method								
<b>Kinematic Viscosity</b>										
<b>KV40</b>	mm <sup>2</sup> /Sec	ASTM-D445	32.00	46.00	68.00	100.00	150.00	220.00	320.00	460.00
<b>KV100</b>	mm <sup>2</sup> /Sec	ASTM-D445	5.37	6.77	8.70	11.36	15.00	18.80	24.00	31.00
<b>Viscosity index</b>	-	ASTM-D2270	99	99	99	99	99	95	95	95
<b>Density @ 15.5°C</b>	g/cm <sup>3</sup>	ASTM-D4052	0.848	0.850	0.882	0.884	0.890	0.900	0.900	0.902
<b>Flashpoint</b>	°C	ASTM-D92	204	206	208	212	218	218	218	220
<b>Pour point</b>	°C	ASTM-D97	-33	-31	-31	-27	-24	-24	-24	-21

### Varol Metalworking

### Varol Machine Lubricants

<b>Varcut</b>	Neat cutting oils, high performance, extensive range of viscosities	<b>VARMULTI</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