

product data sheet

VARCUT 3103

High performance low viscosity extreme pressure neat cutting oil

VARCUT 3103 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 severe duty general machining, deep hole boring, broaching and gear manufacturing of ferrous and non-ferrous materials.

VARCUT 3103 is based on blend of high viscosity index synthetic base oils and advanced synthetic esters combined with high performance inactive sulphur EP and lubricity additives. The product also contains anti-oxidant additives to extend the life of this high performance neat cutting oil.

VARCUT 3103 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 3103 can be used for all forms of grinding, is suitable for use as a lubricating oil where a viscosity grade of ISO 10 is acceptable.

Features and Benefits

High lubricity	Improved tool life and surface finish
Chlorine free	Prolongs stone, belt and tool life
Low viscosity	Excellent fines separation and settlement
High detergency and flushing performance	Allows maximum stock removal
Low aromatic formulation	Multi metal compatible

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Typical Data			Varcut 3103
Parameter	Unit	Method	
Kinematic Viscosity			
KV40	mm²/Sec	ASTM-D445	10
Appearance		Visual	Light straw
Density @ 15.5°C	g/cm³	ASTM-D4052	0.870
Flashpoint	°C	ASTM-D92	145
Ester			Yes
Sulphur (Active)			Yes
Chlorine			No

Varcut 3103 is designed to be used as supplied and is safe to use on most metals.

Varcut 3103 should always be stored indoors and protected from extremes of temperature.

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