

Vario 2104

Multi-purpose neat cutting oil

Description

Castrol Vario 2104 is a chorine free, multi-purpose neat cutting oil. Formulated from highly refined base oils, it can also be used as a hydraulic oil confirming to ISO 6743/4 Type HM and DIN 51502 Class HLP specification. Castrol Vario 2104 is suitable for large central systems and single sump machines.

Application

Castrol Vario 2104 is designed for general machining of ferrous as well as non-ferrous materials. It does not contain active sulphur and is hence compatible with yellow metals as well.

		Low- medium alloved steel	High alloyed steel /nickel- chromium alloys	Titanium	Aluminium alloys	Yellow metals
Honing/ Super finishing						
Grinding						
Drilling						
Broaching/ Gear manufacturing						
General machining	د	د			د	د

Advantages

- Truly multipurpose spent hydraulic oil can be used as a neat cutting oil thereby reducing overall cost
- Excellent detergency and dispersancy properties preventing residues or deposits on work piece
- Excellent wetting characteristics reduce drag out and result in lower product usage
- · Good filtering characteristics and high oxidation stability increases product lifetime
- Our chlorine free formulation improves the environmental profile and reduces disposal costs

Typical Characteristics

Name	Method	Units
Appearance	Visual	Visual
Viscosity at 40°C	DIN 51562 ASTM D 445	mm²/s
Density at 15°C	DIN 51757 ASTM D 1298	kg/m³
Flashpoint COC	ISO 2592	٥°C

Name	Method	Units
	ASTM D 92	°F
Copper corrosion	ISO 2160 ASTM D 130	3 hr at 100°C

Additional Information

	ester	active sulphur		phosphorous	calcium	chlorine	zinc
			sulphur				
Additives				د	د		د

Vario 2104 19 Jan 2011 Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol Industrial, Technology Centre , Whitchurch Hill , Pangbourne , Reading , RG8 7QR , United Kingdom

www.castrol.com/industrial