



Castrol Syntilo 22

Synthetic Coolant

Description

Castrol Syntilo™ 22 is a mineral oil free synthetic coolant especially developed for grinding application on ferrous metals, glass and ceramics. It forms a clear, stable solution in both hard and soft waters.

Castrol Syntilo 22 exhibits good anti-corrosion properties coupled with a high resistance to bacterial attack. It can be used in both single sump machines as well as central systems.

Application

Castrol Syntilo 22 is developed for surface, cylindrical, double disk and centreless grinding. It is also recommended for light machining operation on ferrous metals and for grinding of glass and ceramics.

	Cast Iron	Low - Medium Alloyed Steel	Medium - High Stainless Steel	Aluminium Alloys	Magnesium Alloys	Yellow Metals
Grinding	√√	√	√			
Milling, Turning (general machining)	√	√				
Drilling						
Reaming, Tapping						
Broaching						

Advantages

- Low foaming in all water conditions to ensure continuous grinding performance.
- Inhibits microbial growth to extend fluid life in central systems and individual sumps.
- Chlorine, phenol and nitrite free for environmental compliance.
- Settles chips quickly to prevent grinding wheel build-up and maintain a clean working environment.
- Being a true solution, it allows glass and ceramic swarf, generated during grinding to drop out quickly resulting in a much cleaner fluid and superior finish.

Typical Characteristics

Name	Method	Units	Syntilo 22
CONCENTRATE			
Appearance	Visual	-	Transparent Yellow
Density at 15°C	DIN 51757, ASTM D 1298	kg/m ³	1055
	Calculated	lbs/gal	8.784
Mineral Oil Content	Calculated	Vol%	0
SOLUTION			
Appearance	Visual	-	Transparent
pH (5%)	DIN 51361, ASTM E70-97	-	9.1
Factor Refractometer	-	-	2.7

Recommended Concentrations

Grinding : 2 – 3%
Machining : 2 – 5%
Water range : 0 - 400 ppm CaCO₃

Castrol Syntilo 22
21 Apr 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