



# Syntilo 9913

Synthetic coolant

## Description

Castrol Syntilo™ 9913 is a pH-neutral, mineral oil, boron and formaldehyde releasing agent free synthetic coolant, which has been developed for heavy duty machining of aluminum and other aerospace alloys. Syntilo 9913 also provides excellent product stability which helps to lower the overall operational costs.

## Application

Syntilo 9913 is recommended for machining of aluminium and aerospace alloys.

Approved by Boeing and Airbus for aluminium alloys.

ü ü suggested core application    ü possible application, please consult Castrol representative prior to use

	Cast Iron	Low-medium alloyed steel	High alloyed - stainless steel	Aluminium alloys	Titanium alloys	Tungsten Carbide
Grinding		ü ü	ü ü	ü ü		
Milling, Turning (general machining)		ü ü	ü ü	ü ü	ü ü	
Drilling		ü ü	ü ü	ü ü	ü	
Reaming, Tapping		ü	ü	ü	ü	
Broaching		ü ü	ü ü	ü ü		

## Advantages

- Neutral pH protects aluminum and other aerospace alloys and promotes strong operator acceptance
- Low foaming in all recommended water conditions (see details below)
- Extended fluid life can help to reduce maintenance and downtime
- Rejects tramp oil to the surface of the fluid for easy removal
- Settles chips quickly to prevent grinding wheel build-up and maintain a clean working environment
- Boron, formaldehyde releasing agent and nitrite free which help you to fulfil aspects of legislative requirements and waste treatment requirements where applicable

## Typical Characteristics

	Test Method	Unit	Value
<b>Concentrate</b>			
Appearance	Visual		Light Yellow
Mineral oil content	Calculated	Wt%	0
<b>Solution</b>			
Appearance	Visual		Transparent
pH (5%)	DIN 51369 ASTM E70-97		7.4
Refractometer Factor			1.4

Subject to usual manufacturing tolerances.

## Recommended Concentrations

Grinding	6 - 8 %
General Machining	7 - 10 %
Drilling	8 - 11%
Reaming	8 - 12%
Broaching	10 - 15%

Water range 0 - 250 ppm CaCO<sub>3</sub>

## Additional Information

	Boron	Formaldehyde releasing agent	EP-Ester	Amines
Additives			ü	ü

## Storage

To avoid product deterioration always keep the container/drum tightly sealed. Store the product in a cool, dry place away from direct sunlight. Prevent exposure to frost and avoid water ingress. For optimum product stability, it is preferable to store the product indoors between 5°C and 45 °C / 41°F and 113°F.

For more details, please refer the product safety data sheet.

Syntilo 9913  
28 Apr 2016  
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 (UK) Limited, PO BOX 352, Chertsey Road, Sunbury On Thames, Middlesex, TW16 9AW  
Orders/Enquiries: 0345 9645111 Technical Enquiries: 0345 082 1719  
[www.castrol.com/industrial](http://www.castrol.com/industrial)