


**Product Data**

## Castrol Syntilo 9913

Synthetic coolant

### Description

Castrol Syntilo™ 9913 is a pH-neutral synthetic coolant which has been developed for heavy duty machining for aluminum and other aerospace alloys. Syntilo 9913 contains a combination of surfactant chemistry that provides superior lubrication and excellent cooling properties.

### Application

Syntilo 9913 is recommended for grinding, honing, milling, turning, boring, drilling, and tapping on aluminium and aerospace alloys.

Approved by Boeing for aluminium alloys.

### Advantages

- Neutral pH protects aluminum and other aerospace alloys and promotes strong operator acceptance
- Low foaming in all water conditions
- Inhibits microbial growth to extend fluid life in central systems and individual sumps
- Rejects tramp oil to the surface of the fluid for easy removal
- Boron, chlorine, phenol and nitrite free for environmental compliance

### Typical Physical Characteristics

	Test Method	Unit	Value
<b>Concentrate</b>			
Appearance	Visual	Visual	Transparent, yellow
Density	DIN 51757 ASTM D 1298	kg/m <sup>3</sup>	1.056 – 1.078
	Calculated	lbs/gal	8.89
Mineral oil content	Calculated	Vol. %	0
<b>Solution</b>			
Appearance	Visual	Visual	Transparent
pH (5%)	DIN 51361 ASTM E70-97		7.2 – 7.6
Factor refractometer			1.4

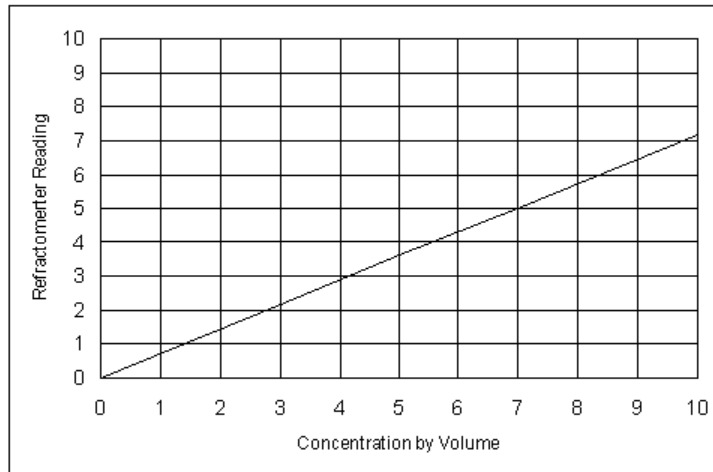
## Recommended Concentrations

Grinding 6 - 8 %  
General Machining 6 - 10 %

Recommended minimum operation concentration for all application is 6%.  
6% concentration of Syntilo 9913 will effectively protect ferrous machine tool equipment.

## Concentration Control

% Concentration	Refractometer Reading
3.0	2.16
5.0	3.60
7.0	5.04
10.0	7.19



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