



## Product Data

# Castrol Syntilo 9974 BF

Synthetic coolant

## Description

Castrol Syntilo™ 9974 BF is a synthetic coolant which has been developed for use as a grinding and heavy duty machining fluid for ferrous metals. Syntilo 9974 BF has been engineered for the high feed and speed of today machining operations. Syntilo 9974 BF performs exceptionally well as a replacement for neat cutting oil in applications such as gun-drilling, gear hobbing and broaching.

## Application

Syntilo 9974 BF is recommended for honing, milling, turning, boring, drilling, tapping, gear hobbing and broaching on all ferrous alloys.

This product is also recommended for various grinding operations.

## Advantages

- Provides superior machining performance on difficult alloys such as inconel and titanium
- 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
- Maintains corrosion protection in hard water
- Superior lubrication package allows for replacement of conventional neat oil technology

## Typical physical characteristics

	Unit	Test Method	Value
Concentrate			
Appearance	Visual	Visual	Transparent, yellow
Density	kg/m <sup>3</sup>	DIN 51757 ASTM D 1298	1.043 – 1.063
	lbs/gal	Calculated	8.77
Mineral oil content	Vol. %	Calculated	0
Solution			
Appearance	Visual	Visual	Transparent
pH (5%)		DIN 51361 ASTM E70-97	8.7 – 9.7
Factor refractometer			1.4

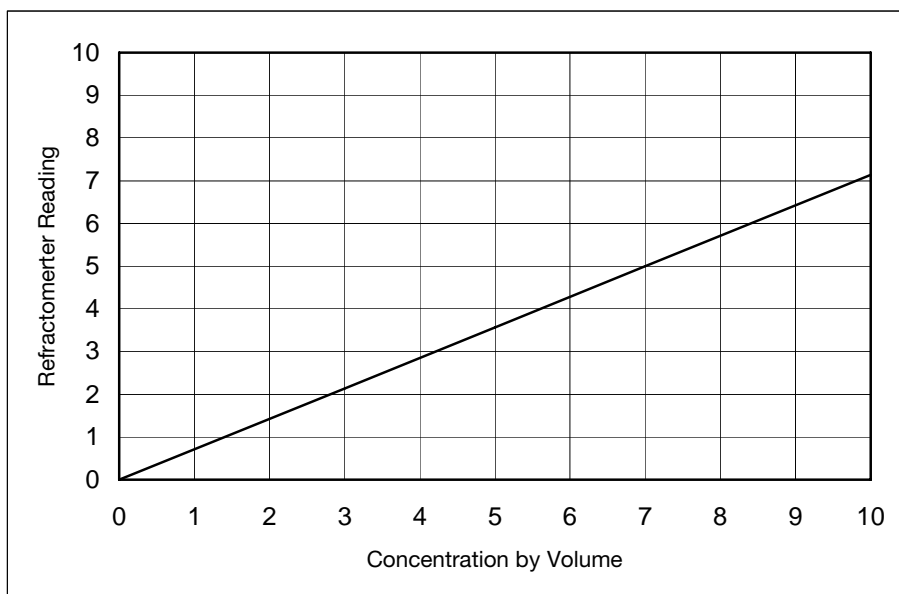
## Recommended concentrations:

Grinding: 4-5%  
General Machining: 4-10%  
Broaching: 10-15%

## Additional information

### Concentration control

% Concentration	Refractometer Reading
3.0	2.14
5.0	3.57
7.0	5.00
10.0	7.14



Castrol Syntilo 9974 BF  
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[www.castrol.com/industrial](http://www.castrol.com/industrial)