



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

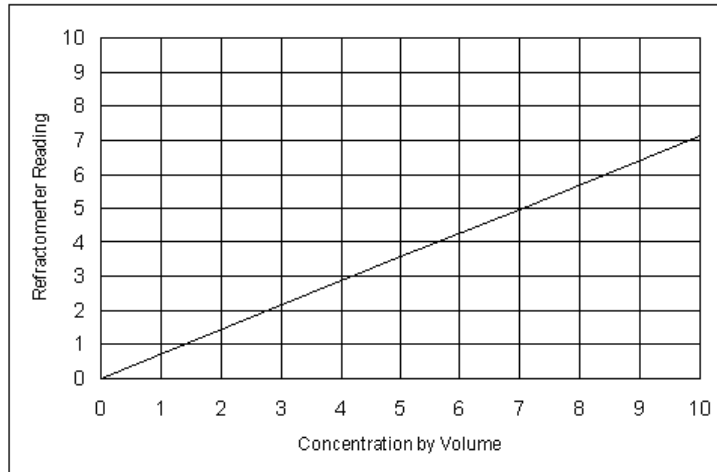
	Test Method	Unit	Value
Concentrate			
Appearance	Visual	Visual	Transparent, yellow
Density	DIN 51757 ASTM D 1298	kg/m ³	1.043 – 1.063
	Calculated	lbs/gal	8.77
Mineral oil content	Calculated	Vol. %	0
Solution			
Appearance	Visual	Visual	Transparent
pH (5%)	DIN 51361 ASTM E70-97		8.7 – 9.7
Factor refractometer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

Recommended Concentrations

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

Concentration Control

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



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INTERNATIONAL All reasonable care has been taken to ensure that the information contained in this publication is accurate as of the date of printing. However, such information may, nevertheless, be affected by changes in the blend formulation occurring subsequent to the date of printing. Material Safety Data Sheets are available for all Castrol Ltd products. The MSDS must be consulted for appropriate information regarding storage, safe handling and disposal of a product.

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