



## Product Data

# Castrol Syntilo® 9974

High Performance Synthetic Cutting and Grinding Fluids

### Description

**Castrol Syntilo® 9974** is Castrol's highest performing, oil-rejecting synthetic metalworking fluid. Its premium technology provides extremely high lubricity in a variety of ferrous metal applications. **Castrol Syntilo® 9974** has been engineered for the high feeds and speeds of today's machining operations. **Castrol Syntilo® 9974** remains clean running and low foaming in both hard and soft water applications. **Castrol Syntilo® 9974** performs exceptionally well as a replacement for straight cutting oils in applications such as gun-drilling and gear hobbing.

### Performance Benefits

- Increased lubrication versus conventional synthetic metalworking fluids
- Excellent stability in hard and soft water applications to ensure minimal residue build up
- Rejects tramp oils to the surface of the fluid for easy skimming
- Low foaming in all water conditions
- Inhibits microbial growth to extend fluid life in central systems and individual sumps
- Prevents bi-metallic corrosion and is safe to use in equipment with copper, brass or bronze components

### Metal Safety

**Castrol Syntilo® 9974** is recommended for machining and grinding of ferrous metals including stainless steels and alloys. Consult your Castrol Account Manager for questions regarding compatibility.

### Recommended Applications & Dilutions

Grinding: 3 – 5%  
Machining: 5 – 10%

### Typical Characteristics

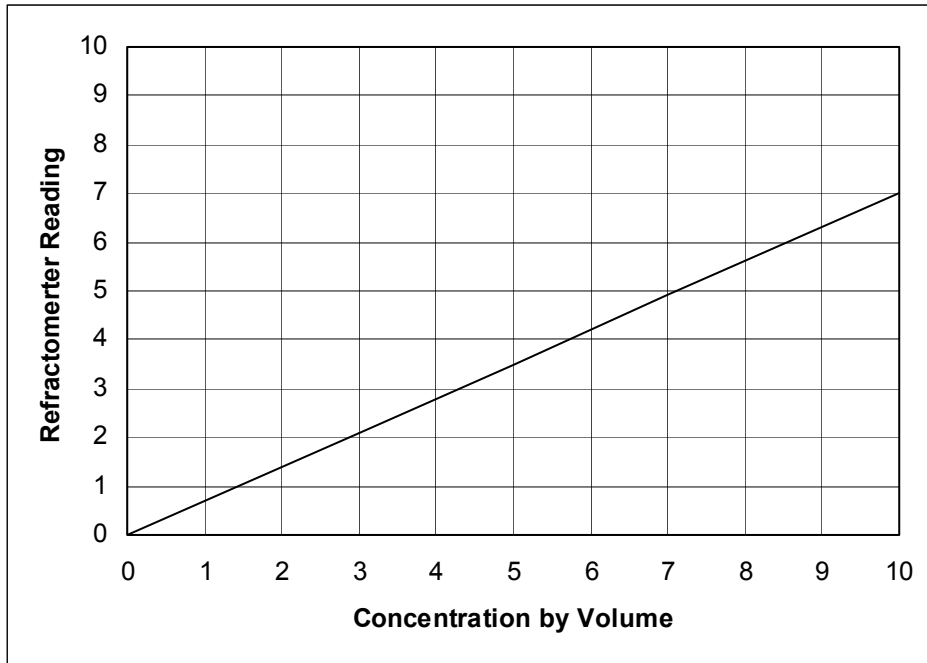
Appearance of concentrate: Clear yellow fluid  
Appearance of dilution: Clear fluid  
pH of dilution @ 5%: 9.1 – 9.7  
Specific gravity @ 60° F (16° C): 1.048 – 1.068  
Bulk density (lbs/gal): 7.8  
Chlorine: No  
Nitrites: No  
Phenols: No



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### Concentration Control

% Concentration	Refractometer Reading
3.0	2.1
5.0	3.5
7.0	4.9
10.0	7.0



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 Industrial North America Inc. products. The MSDS must be consulted for appropriate information regarding storage, safe handling and disposal of a product.