



Product Data

Syntilo 9974

High Performance Synthetic Cutting and Grinding Fluid

Description

Castrol Syntilo® 9974 is a synthetic coolant formulated without mineral oil and formaldehyde releasing agents. It contains an additive package that provides good corrosion protection to machine tools and parts. The fluid also provides excellent product stability which helps to lower overall operational costs.

Syntilo 9974 is suitable for large central systems and single sump machines.

Application

Syntilo 9974 is especially designed as a grinding, honing and heavy duty machining fluid for ferrous materials.

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	Aluminum alloys	Titanium alloys	Tungsten Carbide
Grinding	ü	ü ü	ü ü			
Milling, Turning (general machining)	ü	ü ü	ü ü		ü ü	
Drilling	ü	ü ü	ü ü		ü	
Reaming, Tapping	ü	ü ü	ü ü		ü	
Broaching	ü	ü ü	ü ü			

Advantages

- 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

Typical Characteristics

	Test Method	Unit	Value
<u>Concentrate</u>			
Appearance	Visual		Light Yellow
Mineral oil content	Calculated	Wt%	0
<u>Dilution</u>			
Appearance	Visual		Transparent
pH (5%)	DIN 51369 ASTM E70-97		9.3

Subject to usual manufacturing tolerances.

Recommended Concentrations

Operation	Suggested %
Grinding	4 - 6 %
General Machining	4 - 10 %
Drilling	6 - 10 %
Reaming	6 - 10 %
Broaching	10 - 15 %

Recommended Water Hardness Range 0 - 400 ppm CaCO₃

Additional Information

	Boron	Formaldehyde releasing agent	EP-Ester	Amines
Additives	ü		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.

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