

## TECHNICAL DATA SHEET

# SYN990

## Synthetic Metalworking Coolant

Code 7170

### DESCRIPTION

Callington SYN990 is free from mineral oil, chlorine, and nitrite free, synthetic metalworking coolant, specially designed for grinding light to medium duty machining of cast iron, ferrous alloys, aluminium alloys, and copper alloys.

### FEATURES & BENEFITS

- Optimised lubricity additives and detergency delivers enhanced component quality, reduced grinding wheel dressing, and improved wheel cleanliness
- Multi metal compatibility
- Excellent wetting properties reduces “drag out” and product usage
- Exceptional product stability, long coolant life and exceptional machine cleanliness
- Provides lower process costs and machine downtime
- Low foaming characteristics in soft water conditions, eliminates the use of antifoams and reduces system maintenance costs
- Excellent anti corrosion properties to protect machine tools and components
- Mineral oil, chlorine, and nitrite free, providing high health, safety and environmental compliance standards, and reduced waste treatment costs

### APPLICATION

Callington SYN990 offers improved performance in applications where conventional synthetic coolants are often used, providing enhanced grinding performance, excellent cleanliness, and providing the machining performance to extend its use to most grinding and general machining operations, on cast iron and low to medium tensile steels, aluminium alloys and copper alloys.

Callington SYN990 is recommended for use in soft to hard water hardness conditions (50-400ppm hardness), is economical and low maintenance in use, and provides exceptional sump life. It is equally suitable for use in large centralised coolant systems and for small individual coolant sumps. The products versatility and multi metal compatibility makes it the outstanding choice for the general machining job shop.



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### RECOMMENDED DILUTIONS

Material	Cast Iron	Low/Medium Alloy Steels	Aluminium Alloys	Copper Alloys
Operation	3%	4%	4%	4%
Grinding				
Turning	4%	5%	5%	5%
Boring				
Drilling				
Milling				
Screw Cutting	4%	5%	5%	5%
Sawing				
Tapping	4%	5%	5%	5%

**TYPICAL DATA** (note: data is typical and does not constitute a specification).

Concentrate	Test Method	Typical Result
Appearance	Visual	Clear, Green Fluid
Density	DIN 51757/ASTM D1298	1.06
<b>Emulsion</b>		
Appearance	Visual	Translucent Pale Green
pH5%	DIN 51361/ASTM E70-97	9.0
Refractometer Factor		2.0

### ORDERING INFORMATION

Product Code	Packaging
7170/30	1 litre
7170/42	5 litres
7170/51	20 litres
7170/64	200 litres

### SAFETY DIRECTIONS

Wear protective clothing, including rubber gloves, long trousers, long sleeve shirts and safety glasses. Store in a cool, dry conditions, avoid sunlight.

### FIRST AID

If swallowed do NOT induce vomiting- give water to rinse out mouth and seek medical advice. If skin contact occurs wash with plenty of water and soap. If in eyes, rinse cautiously with water for several minutes and if eye irritation persists get medical advice/attention.

### STORAGE

Keep container closed, prevent exposure to frost, and prevent water ingress. Store in cool, dry conditions, avoid direct sunlight. Indoor storage is preferable.

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