

TECHNICAL DATA SHEET

SYN 990

Code 7170

General Purpose Synthetic Metal Working Coolant

DESCRIPTION

Callington SYN 990 is a mineral oil, chlorine and nitrite free, synthetic metal working coolant, specially designed for grinding and light to medium duty machining of **cast iron, ferrous alloys, aluminium alloys and copper alloys**.

APPLICATION

Callington SYN 990 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 SYN 990 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.

BENEFITS

- Optimised lubricity additives and detergency, delivers enhanced component quality, reduced grinding wheel dressing, and improved wheel cleanliness.
- Multi metal compatibility offers opportunity for product consolidation.
- Excellent wetting properties, reduce “drag out” and product usage, and provide cleaner operating conditions and components.
- Exceptional product stability, long coolant life and exceptional machine cleanliness means 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.

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RECOMMENDED DILUTIONS

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

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
Emulsion		
Appearance	Visual	Translucent Pale Green
pH5%	DIN 51361/ASTM E70-97	9.0
Refractometer Factor		2.0

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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