

TECHNICAL DATA SHEET

SYN 38

Code 7174

General Purpose Synthetic Metalworking Coolant

DESCRIPTION

Callington SYN 38 is a mineral oil free, oil rejecting, synthetic metal working coolant. It is designed for various grinding, and light to medium duty machining applications **on cast iron and ferrous alloys**. It is for use in soft water as well as hard waters and exhibits low foam and excellent stability under a wide range of conditions, providing outstanding machine cleanliness, and extremely long life.

FEATURES & BENEFITS

- Rejection of tramp oil for easy removal, providing excellent machine and component cleanliness.
- Low foaming in all water conditions, ensuring continuous machining, and eliminating use of antifoams.
- Excellent stability and resistance to microbial growth, providing extremely long fluid life, and reducing fluid and waste treatment costs.
- Mineral oil, chlorine, phenol and nitrite free, environmentally friendly.
- Excellent corrosion protection even in hard water conditions.



APPLICATION

Callington SYN 38 is designed for use in most grinding operations including surface, cylindrical and centre less grinding. It is also used in honing, as well as general machining applications, such as boring, turning, milling and light duty drilling operations. It is suitable for use on cast iron, low carbon and free cutting steels, alloy steels and stainless steel.

Callington SYN 38 is extremely stable over a wide range of water conditions (0-400ppm hardness), provides excellent corrosion protection and is very clean in use, reducing product usage and maintenance requirements. It is equally suitable for use in large centralized coolant systems and for small individual coolant sumps.

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RECOMMENDED DILUTIONS

Material Operation	Cast Iron	Low Carbon/ High Carbon Steels	Alloy Steels
Grinding	4%	4%	6%
Honing			
Turning			
Boring	5%	5%	6%
Milling			
Drilling	5%	6%	8%

TYPICAL DATA (NOTE: DATA IS TYPICAL AND DOES NOT CONSTITUTE A SPECIFICATION).

Test items	Method	Typical Result
Appearance	Visual	Clear Liquid
Color	Visual	Colorless - Amber
Density @ 30°C, kg/m ³	ASTM D4052	1.060
pH @ 5% dilution (H ₂ O w/w)	pH meter	8.7
Refractometer Factor	ASTM D445	1.86

ORDERING INFORMATION

Product Code	Packaging
7128/51	20 litres
7128/51/IND	20 litres
7128/64/IND	200 litres

STORAGE

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

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