



# SYN 38

## *High Lubricity Synthetic Metal Working Coolant*

### DESCRIPTION

**Callington SYN 38** is a high lubricity mineral oil free, oil rejecting, and synthetic metal working coolant. It is designed for various grinding, and medium to heavy duty machining applications **on cast iron; various grades of steel including Stainless Steel; Titanium; Inconel and other difficult to machine materials.**

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.

### APPLICATION

**Callington SYN 38** is designed for use in most grinding operations including surface, cylindrical and centerless grinding. It is also used in honing, as well as general machining applications, such as boring, turning, milling and medium duty drilling operations

**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.

### BENEFITS

- Excellent detergency, providing clean grinding wheel and extend dressing period for grinding application.
- Rejection of tramp oil for easy removal, providing excellent machine and component cleanliness.
- 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.



# TECHNICAL DATA SHEET

## Metal Working Fluid Technologies For Industry

### RECOMMENDED DILUTIONS

<b>Material</b> <b>Operation</b>	<b><u>Cast Iron</u></b>	<b><u>Low Carbon/ High Carbon Steels</u></b>	<b><u>Others</u></b>
Grinding	4-6%	5%	5%
Honing			
Turning	6-8%	7-10%	7-10%
Boring Milling			
Drilling	6-8%	10-12%	10-15%
Tapping			

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

<b><u>Test items</u></b>	<b><u>Method</u></b>	<b><u>Typical Result</u></b>
Appearance	Visual	Clear liquid
Color	Visual	Colorless - Amber
Density @30°C, kg/m3	ASTM D4052	1.062
pH @ 5% dilution	pH meter	8.7
Refractometer Factor	ASTM D445	2.0

### **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.

### **WARRANTY**

– All statements, information and data presented herein are believed to be accurate and reliable but are not to be taken as a guarantee, expressed or implied, for which seller assumes legal responsibility and they are offered solely for your consideration, investigation and verification. Statements or suggestions concerning possible use of this product are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe on any patent.