

## TECHNICAL DATA SHEET

# AL 1500

Code 7460

## *Premium Semi Synthetic Metalworking Coolant*

### DESCRIPTION

Callington AL 1500 is a high-performance, semi-synthetic metalworking coolant, designed for the machining of aluminium and aluminium alloys, commonly used in the automotive, electronics, and aerospace industries, as well as ferrous alloys. It has been formulated for use in soft water as well as hard waters and exhibits low foam and excellent stability under a wide range of conditions.

### FEATURES & BENEFITS

- Excellent surface finish and extended tool life, even in difficult operations
- Can be used on both aluminium and ferrous materials, offering manufacturing flexibility
- Excellent wetting properties, reducing “drag out” and product usage
- Exceptional product stability and long coolant life means lower process costs
- Excellent corrosion protection, non-staining to ferrous materials and to aluminium and its alloys
- Low foaming characteristics even in modern high-pressure machines



### APPLICATION

Callington AL 1500 has been designed for use in most metalworking applications including grinding, and its performance is particularly outstanding in the more difficult aluminium machining operations such as reaming, tapping, and broaching of the harder high silicon aluminium alloys. It is non-staining to aluminium and its alloys, making it suitable for use in automotive, electronics, and aerospace aluminium applications.

Callington AL 1500 is suitable for use with the latest technology high-speed machining centres and can be used also on ferrous materials, making it ideal for use where both aluminium alloys and ferrous materials are being machined. It is low foaming and ideal for high pressure, high volume coolant flow applications. It is equally suitable for use in large centralised coolant systems and for small individual coolant sumps.

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### RECOMMENDED DILUTIONS

Material	Low Si Aluminium	High Si Aluminium	Low alloy steels	High Alloy Steels
Operation	4%	4%	-	-
Grinding				
Turning				
Drilling	5%	6%	5%	6%
Heavy Duty Milling				
Tapping	7%	8-10%	6%	6%
Reaming				
Broaching	7%	8-10%	-	-

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

Concentrate	Test Method	Typical Result
Appearance	Visual	Pale Amber Fluid
Density	DIN 51757/ASTM D1298	0.96 g/ml
<b>Emulsion</b>		
Appearance	Visual	Semi Translucent
pH5%	DIN 51361/ASTM E70-97	9.0
Refractometer Factor		1.12

### ORDERING INFORMATION

Product Code	Packaging
7460/42	5 litres
7460/51	20 litres
7460/64	200 litres

### STORAGE

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

### SHELF LIFE

The shelf-life of the product when stored under appropriate storage conditions is 12 months from the date of manufacture.

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