

TECHNICAL DATA SHEET

SYN 85MM

Premium Synthetic for Multi Metal Machining

Code 7137

DESCRIPTION

Callington SYN 85MM is a synthetic, water-based metalworking coolant designed for medium to heavy duty machining and grinding of ferrous and non-ferrous materials. Free from mineral oil, chlorinated additives, biocides, secondary amines and nitrites, **Callington SYN 85MM** offers an environmentally friendly, safe to use solution, for multi-metal machine shops.

Free from silicone derived antifoams ensures that **Callington SYN 85MM** is easily washed from machined parts and is totally compatible with processes where subsequent coatings are applied.

FEATURES & BENEFITS

- Excellent corrosion protection, non-staining to aluminium and aluminium alloys, preventing oxidation and staining on workpieces and equipment.
- Unique lubrication technology provides exceptional machining performance and extends tool life.
- Exceptional thermal stability, long coolant life, and exceptional machine cleanliness, means lower process costs, machine downtime, and excellent parts visibility whilst machining.
- Low foaming characteristics in soft water conditions, eliminates the use of antifoams, and reduces system maintenance costs.
- Excellent resistance to bacteria, fungal contamination and moulds, means no bad odours, safe working environment, and excellent machine cleanliness.
- Low pH means safe to machine operators, mild to the skin.
- Mineral oil, chlorine, secondary amine, and nitrite free, providing high health, safety and environmental compliance standards, and reduced waste treatment costs.



APPLICATION

Callington SYN 85MM offers improved performance and is recommended for the machining and grinding of aluminium alloys (including 2000, 6000, and 7000 series alloys), carbon steels, stainless steel alloys, titanium and nickel alloys.

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Depending on the material and machining severity **Callington SYN 85MM** is normally recommended at 5-10% concentration for grinding and cutting. Concentration can be easily measured by refractometer. Your Callington representative can advise on this.

Callington SYN 85MM is recommended for use in soft to hard make up water hardness conditions (0-400ppm hardness), is economical and low maintenance in use, and provides exceptional sump life. Its versatility and multi metal compatibility makes it the outstanding choice for machine shops machining runs of different components and materials, allowing for product consolidation.

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

Concentrate	Test Method	Typical Result
Appearance	Visual	Clear, yellow liquid
Density @ 30degC	DIN 51757/ASTM D1298	1.06
Emulsion		
Appearance	Visual	Translucent pale yellow
pH5%	DIN 51361/ASTM E70-97	8.0 typical
Refractometer Factor		2.0

ORDERING INFORMATION

Product Code	Packaging
7137/51	20 litres
7137/64	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.

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