

TECHNICAL DATA SHEET

SYN 85

Code 7138

Premium Synthetic Metalworking Coolant

DESCRIPTION

Callington SYN 85 is a neutral pH synthetic metalworking fluid which has been developed for heavy duty machining of ferrous and non-ferrous materials. SYN 85 combines a unique combination of surfactants and lubricity additives which provide excellent lubrication, in addition to superior cleanliness and cooling properties.

APPLICATION

Callington SYN 85 is recommended for grinding, general machining, as well as difficult machining operations on aluminium and aluminium alloys, and ferrous alloys, including tapping, boring, drilling, milling and turning.

BENEFITS

- Excellent surface finish and extended tool life, even in difficult operations
- Neutral pH therefore low skin irritation potential, means excellent operator acceptance
- 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
- Non-staining to aluminium and its alloys.
- Low foaming characteristics even in modern high pressure machines.
- Excellent tramp oil rejection means cleaner machines and components

RECOMMENDED DILUTIONS

Material	Aluminium and Aluminium alloys	Carbon Steels	Alloy Steels
Operation	6-8%	6-8%	6-8%
Grinding			
Turning			
Drilling			
Heavy Duty Milling	8-10%	8 - 10%	8-10%
Tapping			

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

Concentrate	Test Method	Typical Result
Appearance	Visual	Clear Yellow Fluid
Density @30C	DIN 51757/ASTM D1298	1.05
Emulsion		
Appearance	Visual	Clear, colourless
pH5%	DIN 51361/ASTM E70-97	7.4-7.8
Refractometer Factor		1.7

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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