Technical Data

TUFCUT
METAL CUTTING LUBRICANTS
(Spray, Foam, Liquid, Compound & Aqua)



The **TUFCUT** range is comprised of specialist metal cutting lubricants based on a mixture of extreme pressure additives and anti-oxidants. They have been formulated with high film-strength and resistance to extreme pressures, that extends tool life, dissipates heat and prevents chip welding. Tufcut allows heaver, close tolerance cuts, reducing rejects and increasing production.

APPLICATIONS

Outstanding performance for turning, drilling, reaming, tapping and thread cutting of tough metals such as stainless steel, high-tensile, high-speed, high-carbon steels, and carbon fibre/composite forms. Particularly invaluable for:

- Mould and Dye Makers
- Heavy Engineering
- Metal Fabricators
- Shipyard, Docks and Marine Companies
- Pattern Formers
- Plant Manufacturers
- Metal Parts Manufacturers

- **TUFCUT (SPRAY)** is a versatile metal cutting lubricant that has been used for decades throughout the industrial, aviation, military and automotive sectors. Now with NSF H2 Registration it can be used in Food/Beverage/Pharmaceutical facilities.

- **TUFCUT (LIQUID)** is available as a bottle or 5Ltr bulk product. It provides an extreme-pressure resistant, tenacious film between the tool edge and work piece ensuring an excellent finish. Approved for use marching composite fibre parts in the aviation sector.

- **TUFCUT (FOAM)** is a foaming lubricant specifically formulated to enable cutting applications to be performed on vertical surfaces without excessive loss of lubricant from the work piece.

- **TUFCUT COMPOUND** is a traditional metal cutting paste that has all the performance of the rest of the Tufcut range.

- **TUFCUT AQUA** is a premium quality, multi-purpose water soluble cutting fluid for use in the automated and machine fed metal working applications.

TECHNICAL DATA

		Foam	Spray	Liquid	Compound	Aqua
Appearance	:	White Foam	Brown Liquid	Dark Brown Liquid	Dark Green Paste	Clear Liquid
Odour	:	Slight	Oily	Oily	Distinctive, Pine	
SG @ 20°C	:	1.02	0.70	0.97	N/A	
NSF Category		N/A	H2 Reg	N/A	N/A	N/A
NSF Number	:	N/A	147110	N/A	N/A	N/A
Pressure @ 20°C	:	6 Bar	4 Bar	N/A	N/A	
Discharge rate	:	0.9 g/sec	1.0 g/sec	N/A	N/A	
Temperature range	:	Operational up to 200°C	Operational up to 200°C	Operational up to 200°C	Operational up to 200°C	
Solubility	:	Soluble in solvents, insoluble in water	Soluble in solvents, insoluble in water	Soluble in solvents, insoluble in water	Soluble in solvents, insoluble in water	
Flammability	:	Classified as Extremely Flammable	Classified as Extremely Flammable	Non-Flammable	Non-Flammable	
Flashpoint	:	N/A	N/A	In excess of 150°C	<150°C	Non-Flammable
Density	:					1.1
ph of Concentrate	:					9.5
Ph of a 5% solution	:					9
Viscosity @ 20 °C @ 40 °C						32.6 mm²/s 13.3 mm²/s
Saponification Factor						65 mg KOH/g
Packaging	:	300ml Aerosol	400 ml aerosol	350 ml bottle & 5 litre bulk	500g tin	5Ltr, 25Ltr
Shelf Life (Months)	:	72	72			

STORAGE

The product may be stored at normal ambient temperatures. Aerosols should always be stored below 50°C, away from direct heat and naked flame.

HEALTH AND SAFETY - Health and Safety sheets are available separately.

TECHNICAL SERVICE

CRC Industries UK Ltd provides a technical support service and maintains a constant programme of research and development. We are able to assist customers by specific product development to meet particular requirements.

MISREPRESENTATION ACT 1967 **TRADE DESCRIPTIONS ACT 1968**

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