

## 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 heavier, 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 machining 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**

	<b>Foam</b>	<b>Spray</b>	<b>Liquid</b>	<b>Compound</b>	<b>Aqua</b>
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 mm <sup>2</sup> /s 13.3 mm <sup>2</sup> /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**

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**TRADE DESCRIPTIONS ACT 1968**