



## **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**

The information given in this publication is based on our experience and reports from customers. There are many factors outside our control and knowledge which affect the use and performance of our products and for which reason no warranty is given, express or implied. Users should make their own tests to determine the applicability of such information or the suitability of any products for their own particular purposes. Statements concerning the use of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is to be assumed.

**TRADE DESCRIPTIONS ACT 1968**

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