



Metal Working



NSF Registered valid for TUF CUT (SPRAY)



TUF CUT (SPRAY) - Just one of over 25 FG products

## TUF CUT

### METAL CUTTING LUBRICANTS (SPRAY, FOAM, LIQUID, COMPOUND & AQUA)

Tufcut is a range of specialist metal cutting lubricants based on a mixture of lubricants, extreme pressure additives, and anti-oxidants.

The range has been formulated to offer instant, ready to use metal machining products that demonstrate exceptional performance in demanding applications. Tufcut allows heavier, close tolerance cuts, reducing rejects and increasing production.

### PRODUCT CODES / FILL SIZES

Tufcut Liquid	Tufcut Spray	Tufcut Foam	Tufcut Compound	Tufcut Aqua
31580	31579	31582	31581	30313
31723				30314

### 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
- Metal Fabricators
- Pattern Formers
- Metal Parts Manufacturers

### DIRECTIONS

- TUF CUT (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.
- TUF CUT (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.
- TUF CUT (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.
- TUF CUT COMPOUND is a traditional metal cutting paste that has all the performance of the rest of the Tufcut range.
- TUF CUT AQUA is a premium quality, multi-purpose water soluble cutting fluid for use in the automated and machine fed metal working applications.

## TECHNICAL DATA (WITHOUT PROPELLANT)

Product Range	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	
Temperature range	Up to 200°C	Up to 200°C	Up to 200°C	Up to 200°C	
Solubility	Soluble in solvents, insoluble in water				Soluble in water
Flammability	Extremely Flammable	Extremely Flammable	Non- Flammable	Non- Flammable	Non-Flammable
Flashpoint	N/A	N/A	> 150°C	<150°C	
Density					1.1
pH of Concentrate					9.5
Ph of a 5% solution					9
Viscosity @ 20 °C					32.6 mm <sup>2</sup> /s
Viscosity @ 40 °C					13.3 mm <sup>2</sup> /s
Saponification Factor					65 mg KOH/g

## STORAGE & SHELF LIFE

The product may be stored at normal ambient temperatures. Aerosols should always be stored below 50°C, away from direct heat, naked flame. All Tufcut range has a shelf life of 6 years except for Tufcut Compound (shelf life of 4 years) and Tufcut Aqua (shelf life of 3 years).

## HEALTH AND SAFETY

A separate Safety Data Sheet (SDS) according to EC Regulation 73/404/EEC and 648/2004/EC is available from Ambersil.com or via info.uk@crcind.com

## MISREPRESENTATION ACT 1967

## TRADE DESCRIPTIONS ACT 1968

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