Cutting Fluids UK

TECHNICAL DATA SHEET

Cut XAL

Description

A high quality, chlorine free, long life soluble cutting fluid designed to give outstanding performance when machining a wide variety of materials from aluminium alloys to steels and cast iron.

Cut XAL gives superb cutting performance and surface finish, especially with multi-tool CNC machines. It derives its performance from a synergistic blend of high lubricity and extreme pressure additives which help to provide the user with a coolant capable of meeting the most demanding requirements in terms of surface finish, coolant life and tool life.

Cut XAL produces a highly stable transluscent emulsion which provides a very clean working environment and which also tolerates hard waters and is very low foaming in soft waters.

Cut XAL provides excellent corrosion protection and is non-staining to sensitive materials.

Performance Benefits

- **Excellent lubricity**
- **Excellent EP performance**
- **Extra long coolant life**
- **Excellent corrosion prevention and non-staining**
- **Operator and environmental friendly – free from Chlorine, Nitrites, Phenols, and Triazine.**
- **Excellent surface finish**
- **Enhanced tool-life**
- **Low foaming, even in high-pressure systems.**
- **Suitable for a wide range of materials, including sensitive alloys**

Recommended Applications and Dilutions

Coolant XAL is suitable for a wide range of machining operations, including creep feed grinding, and for work on Aluminium Alloys, Steels and Cast Iron.

Material / Operation	Alloy Steels	High tensile & Stainless Steels	Aluminium Alloys
General Machining	4-6%	5-10%	6-10%
Tapping Reaming & Broaching	5-10%	6-12%	8-12%
Grinding	4-6%	5-8%	5-8%

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Typical Physical Properties

Appearance	Yellow liquid
Emulsion Type	Fine milky
Foaming Tendency	Low
Specific Gravity at 20°C	0.96
Lubricity	Very High
pH @ 5%	9.1
Refractometer Factor	1.0

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