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CleanCut Ultra

Superior Quality High Performance Semi Synthetic Metalworking Fluid

Product Description

Cleancut series represents a range of new generation soluble metalworking fluids free from boron, formaldehyde release biocides, DCHA and chlorinated paraffins designed to comply with existing and pending REACH regulations offering the highest levels of health, safety and environmental compliance.

CleanCut Ultra is a medium oil content high performance semi synthetic soluble metalworking fluid incorporating carefully balanced levels of mineral oils and synthetic esters producing a highly robust micro emulsion when mixed with water.

CleanCut Ultra is a superior quality water soluble metalworking fluid designed to cater for the most demanding applications created by high pressure coolant delivery systems where foaming is problematic with conventional coolants.

CleanCut Ultra incorporates newly developed emulsifier technology which is compatible with both very soft and very hard make up waters resulting in significantly improved foam control and reduced instances of product instability due to soap scum formation.

Applications

CleanCut Ultra is a heavy duty high performance product particularly well suited to operations where high levels of lubricity are required including turning, milling, drilling and deep hole drilling of arduous exotic alloys such as titanium, Inconel, nimonics, stainless steel along with aluminium and copper alloys where the product is inhibited against staining. The high levels of lubricity ensure excellent tool life and outstanding surface finish.

Features & Benefits

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| • Boron & formaldehyde biocide free | ~ | Improved EHS profile |
| • Biostable emulsion | ~ | Extended sump life / fewer fluid changes |
| • Low foaming | ~ | Reduced anti-foam additions |
| • Chlorine free | ~ | Improved environmental profile |
| • Suitable for soft & hard make up water | ~ | Low foam and soap scum formations |
| • Heavy duty formulation | ~ | Outstanding surface finish & tool life |



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Typical Test Data

Characteristic / Test	Data
Appearance (concentrate)	Straw
Appearance (emulsion)	Micro White
Specific Gravity @ 15°C	0.976
pH @ 5%	9.7
IP 287 Breakpoint Corrosion	2.5 %
IP 125 Herbert Corrosion Test	N/A
Dilution Range (min ~ max)	4 ~ 10 %
Refractometer Conversion Factor	1.12
Water Hardness Range ppm CaCO ₃ (min ~ max)	50 ~ 500

Actual dilution rates may vary depending on application. Please consult with Technical Services to determine the most suitable dilution for your application.

Coolant Care

To promote maximum service life, it is strongly advised that coolant systems are thoroughly sterilised with CutClean System Cleaner prior to coolant changes (see CutClean Technical Data Sheet for further information and guidelines).

To maintain the efficiency of the coolant, daily checks for concentration with a hand refractometer is recommended. Maintaining a consistent concentration is paramount to prolonging the fluid sump life.

Availability & Storage

CleanCut Ultra is available in 205 litre barrels and 20 litre drums. Barrels of lubricant should always be stored in such a way that will prevent the ingress of water when stored in the open. Protect from frost.

Health and Safety

Please refer to the relevant Safety Data Sheet, a copy of which is freely available to all our customers. Data represented is typical of that obtained with normal production tolerances and does not constitute a specification.