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TDS107

SUBJECT: OIL SPECIFICATIONS

ENVIRONMENTAL & QUALITY MANUAL
(in accordance with ISO 9001 & 14001)

WATER MISCIBLE CUTTING FLUIDS

Viscol's water miscible range of cutting oils, employ the latest technology available in global engineering. Each product is carefully formulated to deliver the right performance while having the minimum harmful impact on both the operator and the environment.

Viscol's range of products offer the user the choice of the right product for the right application, or general products for multiple applications. These products contain no sulphur, chlorine, phosphorous, nitrate, DEA or phenol, being formulated with great care to the end user.

All these products are compatible with Viscol Slideway lubricant.

Cutsol FG

Cutsol FG is formulated using the latest emulsifier technology and offers a product with excellent stability in the emulsion. The technology employed gives better resistance to bacterial and fungal attack than general products, although it is recommended to extend the fluid life to add Biocides to the emulsion (e.g. Viscol Bio 101). Viscol FG forms a milky emulsion and is recommended at 20:1 for general machining applications. This product is sulphionate free.

Clearsol

Clearsol has the same functions as Cutsol, except that Clearsol is a translucent soluble cutting fluid and allows for unobstructed vision for the handler.

Eurosol ND

Eurosol ND is formulated using the latest emulsifier technology and offers greatly improved corrosion protection over Cutsol FG. Again the product has improved Biological resistance, but either excellent house keeping or addition of Biocides is preferred. It forms a milky emulsion, and is recommended at 20:1 for general machining, and 50:1 for non-critical grinding. This product is sulphionate free.

Eurosol HD

Eurosol HD has been formulated to meet the needs of more arduous cutting, such as gear cutting, hobbing and shaping, deep hole drilling, and tapping and threading. It can also be used with yellow metals as it employs a unique non-reactive EP additive. It forms milky emulsion, and like the other products in this range it has inherently better resistance to bacterial attack, and will give excellent corrosion protection. It is recommended at dilutions of 10:1.

Eurosyn C

Eurosyn C is part of the semi synthetic family of cutting fluids and has general purpose functions, it is also inherently biostable and free of biocides, phenols and nitites. Mixed 50:1 is ideal for grinding.

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Eurosyn FYM

Eurosyn FYM is a semi synthetic cutting fluid, formulated using biostable technology giving it a high resistance to bacterial and fungal attack. This product will also give excellent service life, and can be used for a year and beyond if good house keeping is followed. It forms a translucent emulsion and is suitable for ferrous and yellow metals in high-speed CNC machines or where service life is important. It is normally recommended at 20:1 dilutions for general machining and at 50:1 for grinding.

Eurosyn ALU

Eurosyn ALU has been formulated using a special lubricity additive in combination with an amine free emulsifier to give a product suitable for machining of aluminium. This product will not stain aluminium, and gives excellent surface finish, allowing manufacturing of tighter tolerances. It forms a translucent emulsion and is recommended at 20:1 for general machining, and 50:1 for grinding.

Syntamatic

Syntamatic is a fully synthetic fluid developed primarily for grinding. It is suitable for both ferrous and non-ferrous metals. It forms a transparent solution, allowing for clear vision of the workpiece. It provides excellent corrosion protection, and can be used at 50:1 – 60:1 concentrations. It may be used at 20:1 for general cutting applications.

Experienced personnel from our Technical Division are available for discussion on all aspects. Recommendations are given in good faith but without warranty. It is the user's responsibility to determine the suitability for his/her own use.

The products discussed are sold without any warranties either expressed or implied, including warranties of merchantability and of fitness for particular purpose.

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