TECHNICAL DATA SHEET

CIIFROL SYNCUT 8100

Semi-Synthetic, Bio-Stable Water-Soluble Cutting Fluid

DESCRIPTION

Ciifrol Syncut 8100 is a semi-synthetic, bio-stable, micro-emulsion type water-soluble cutting fluid. It forms a translucent clear solution when mixed with water. The solution is homogeneous and does not break even during prolonged usage or shutdowns. It is a low-oil-content, non-EP type product whose emulsions are compatible with cast irons, most ferrous alloys including stainless steel and free-cutting aluminium alloys, oil-resistant plastics and other non-ferrous metals.

APPLICATIONS

Ciifrol Syncut 8100 is recommended for grinding, reaming and general machining operations. It is also suitable for deep-hole drilling and boring, thread cutting and forming operations under appropriate concentration levels. The source sheet states that it provides extended oil life compared with conventional soluble cutting oils, along with extended tool life and finish in cutting operations, including heavy-duty machining.

OPERATION	RECOMMENDED DILUTION
General machining	5–6%
Reaming	8–10%
Grinding	3–5%
Thread cutting and forming	6–8%
Deep-hole drilling and boring	6–8%

SPECIFICATIONS

This is a proprietary formulation of SRN Lubricants.

KEY BENEFITS

- Low foaming in all water conditions to support continuous grinding performance.
- Free from sulphur-, chlorine- and phosphorus-based EP additives.
- Inhibits microbial growth to enhance coolant sump life.
- Extended protection of workpiece, machine components and tool material from rust and corrosion.
- Excellent surface finish and superior cooling properties.
- Very long emulsion life.

KEY PROPERTIES

PARAMETERS	TYPICAL RESULTS
Appearance	Amber fluid
pH of 5% emulsion in water, typical	9.6 typical
Cast iron corrosion	Passes
Solution stability	Excellent
Mineral oil content	15%

The above values are typical results. Guaranteed specification values may differ and are often lower than typical values. For guaranteed specifications, please contact a CIIFROL representative.

The information provided in this Technical Data Sheet is based on our best knowledge and experience and is intended as a general guide. The technical data represents typical values and may vary depending on product batches, operating conditions and application methods.

Users are advised to refer to the latest Technical Data Sheet and Safety Data Sheet (SDS) for applicable product information.

Users are advised to evaluate the product for suitability for their specific application and to follow recommended handling, storage and safety practices. CIIFROL accepts no responsibility for any loss, damage or injury resulting from improper, unintended or abnormal use of the product or conditions beyond its reasonable control.

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