

CIMFREE® 35-181

Vegetable oil based boron & formaldehyde releasing agent free product for medium to heavy duty applications equipped with CimShield Technology



Application

Cimfree 35-181 is an innovative metalworking fluid based on renewable vegetable oils. This high-performance emulsion is free of boron, nitrite, chlorine and formaldehyde releasers. The Cimfree 35-181 is equipped with Cimcool's unique CimShield Technology. This innovative technology will secure the product stability, the pH buffering of the mix and gives excellent corrosion protection.

It is especially suitable for medium to heavy duty machining operations of ferrous and most non-ferrous metals. Cimfree 35-181 can be applied in both individual machines and central systems and is developed for medium-hard water (hardness 7,5-20°dH).

Features and benefits

- CimShield Technology - Based on a unique formulation and contains a special blend of new innovative materials. These materials work in synergy providing product stability, pH buffering and corrosion protection. The results equal traditional products which contained boron and formaldehyde releasing agents. The CimShield Technology not only protects the product from outside influences but also shields the product from evaporation, resulting in low top up rates and thus reducing overall consumption.
- Unlike most other vegetable oil based products, Cimfree 35-181 is an amazingly clean fluid.
- Cimfree 35-181 reduces environmental strains due to its renewable base, without concessions to Cimcool's high technical requirements.
- Excellent lubricating properties exceeding those of mineral oil based micro fine emulsions thereby allowing higher productivity.
- Suitable for a wide variety of applications, ranging from turning, sawing to milling and grinding.
- Low misting properties, which contributes to a clean and healthy working environment.

In conclusion, the use of Cimfree 35-181 reduces environmental concerns and improves the workplace environment, because it does not contain mineral oil, boron or formaldehyde releasing biocides.

Methods of application

Cimfree 35-181 is easy to mix, normal stirring only. For automatic mixing, the use of the Cimcool® Mix Master or Cimcool Mix Master S is recommended. Typical starting water temperature conditions should be 5 - 25°C.

Recommended starting concentration

Grinding operations	5.0 - 7.0%
Standard machining	6.0 - 8.0%
Heavy duty machining	8.0 - 10.0%

Mix Master S

Concentration** can easily be obtained by setting the regulator to the correct number.

** The concentration may vary depending on local conditions. It is therefore always advised to check using the refractometer or TA Kit.

Concentration analysis

For concentration analysis, use one of the below given methods or an appropriate laboratory procedure available from your local stockist.

Refractometer factor:	1.5
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If the refractometer is used, the resultant reading multiplied by a factor of 1.5 will only be relevant when applied to a fresh mix.

Cimcool TA kit	Use 2 ml. mix								*: next syringe	
%	1	2	3	4	5	6	7	8	9	10
Reading	0.87	0.78	0.69	0.60	0.50	0.41	0.32	0.23	0.13	0.04

Handling and storage

Protect from freezing, direct sun and store between 5 - 35°C.

Packaging type

5, 20, 200, 1000 litre.

Safety Data Sheet

The Safety Data Sheet should be consulted for specific information and information on Health, Safety and Environment when handling this product.



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