



## Description

Cimperial 31-86FF is a formaldehyde releasing biocide free, easy to use and reliable heavy-duty metalworking fluid. It is an excellent all-round emulsion suitable for many heavy-duty machining operations.

## Application

Cimperial 31-86FF can be used without problems for a great number of metals ranging from aluminium to steel and stainless steel. The potential aluminium staining has been minimised making Cimperial 31-86FF suitable for most used aluminium types. Cimperial 31-86FF is especially developed for use in harder water (12 to 25°dH in starting water).

## Features and benefits

- Cimperial 31-86FF is an excellent multipurpose and absolutely hassle-free fluid.
- It provides a high quality finish and excellent stability, which makes Cimperial 31-86FF a very cost-effective product.
- Cimperial 31-86FF is a mild formaldehyde releasing biocide free product.
- It will keep grinding wheels open and maintains machine cleanliness.
- Cimperial 31-86FF notably improves production. Effective lubricants reduce the amount of heat generated in the cutting zone permitting higher speeds and feeds, thereby increasing production while maintaining or improving overall part quality.

## Methods of application

Cimperial 31-86FF 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	5 - 10 %
Machining	5 - 10 %

## 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:	1.0
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If the refractometer is used, the resultant reading multiplied by a factor of 1.0 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	0.85	0.73	0.60	0.48	0.36	0.24	0.11	*.99	*.87	*.75	

## Handling and storage

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

## Packaging type

25, 200 and 1.000 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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