

# CIMPERIAL® 35-871-02

Boron and formaldehyde releasing agent free product for heavy duty applications equipped with CimShield Technology



PRODUCT INFORMATION FLYER

## Description

Cimperial 35-871-02 is an excellent all-round emulsion suitable for many heavy-duty machining operations including grinding. The Cimperial 35-871-02 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.

## Application

Cimperial 35-871-02 can be used without problems for a great number of metals ranging from aerospace and automotive aluminium to steel and stainless steel. The potential aluminium staining has been minimised making Cimperial 35-871-02 suitable for most used aluminium types.

Cimperial 35-871-02 is especially developed for use in harder water (12 to 25°dH in starting water). In case of soft water, please use Cimperial 35-811.

## 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.

Cimperial 35-871-02 is an excellent all-round heavy duty emulsion and absolutely hassle-free fluid. It provides a high quality finish and excellent stability. This stability ensures a long fluid life, which makes Cimperial 35-871-02 a very cost-effective product.

Cimperial 35-871-02 is a mild and clean product. It will keep grinding wheels open and maintains machine cleanliness.

Cimperial 35-871-02 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 35-871-02 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 and machining	6 - 10%
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## 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.

## Concentration analysis

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

Refractometer factor:	1.2
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If the refractometer is used, the resultant reading multiplied by a factor of 1.2 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	0.90	0.80	0.70	0.60	0.51	0.41	0.31	0.22	0.12	0.02

## Handling and storage

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

## Packaging type

5, 20, 200 and 1.000 litre and bulk.

## 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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