

# CIMSTAR® 35-451

Cutting and grinding fluid for medium duty applications  
equipped with CimShield Technology.



## Description

Cimstar 35-451 is a clear, water miscible, semi-synthetic cutting fluid concentrate.

The Cimstar 35-451 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

Cimstar 35-451 is a general-purpose cutting fluid recommended for medium duty grinding and machining of all ferrous and most non-ferrous metals. Cimstar 35-451 is designed for use in individual machines and central systems.

Cimstar 35-451 is suitable for harder starting water hardness (15-25 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. Covers a wide range of materials and operations.
- Keeps grinding wheels open and free cutting.
- Good settling characteristics.
- Clean, no residues, pleasant to use and low misting.

## Methods of application

Cimstar 35-451 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, starting concentration	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 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:	2.0
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If the refractometer is used, the resultant reading multiplied by a factor of 2.0 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	0.72	0.59	0.47	0.34	0.21	0.09	*.96	*.83	*.71	

## Handling and storage

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

## Packaging type

5, 25, 200, 1000 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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