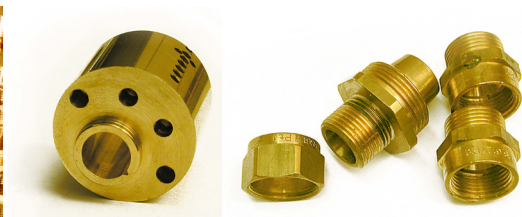




CIMSTAR® 31-592

Cutting fluid for yellow
metal applications



APPLICATION SHEET

Description

Cimstar 31-592 is a boron and formaldehyde releasing biocide free product designed to machine and grind a wide range of yellow metals such as brass, bronze and copper. Full compatibility with these materials, resulting in very low copper dissolving, no staining and minimising formation of coppersoaps is reached due to the carefully selected raw materials in combination with effective yellow metal inhibitors.

Application

Cimstar 31-592 is a semi-synthetic type metalworking fluid designed for the machining and grinding of yellow metals. In addition, Cimstar 31-592 can also be used on steel alloys and most aluminium types making the product suitable for manufacturers predominantly working with yellow metals but who also use other metals. Cimstar 31-592 is a product designed for use in medium hardness (10-20 dH) starting water. It can be used in both central systems as well as individual machines.

Features and benefits

- Cimstar 31-592 is a semi-synthetic machining and grinding fluid, which - when compared to the traditionally used conventional emulsions - provides good visibility, excellent cleanliness, improved washing action and lower (top-up) consumption.
- Cimstar 31-592 contains an effective combination of yellow metal inhibitors, which prevent the problems (staining, copperdissolving and copper soaps formation) normally associated with machining and grinding of yellow metals.
- Cimstar 31-592 has been specifically designed for use on yellow metals like brass, bronze and (electrolytic) copper reducing the risk of residue formation. In addition, Cimstar 31-592 can also be used on steel and most aluminium alloys.
- Cimstar 31-592 is fully compatible with Cimclean® and competitive water based alkaline cleaners.

MILACRON®

**CIMCOOL**
FLUID TECHNOLOGY

Methods of application

Cimstar 31-592 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	5 - 6 %
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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:	1.3
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If the refractometer is used, the resultant reading multiplied by a factor of 1.3 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	0.95	0.90	0.85	0.81	0.76	0.72	0.68	0.63	0.59	0.55	

Handling and storage

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

Packaging type

5, 25, 1000 and 200 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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