

WOLFRACO WF 51 W

Pigment-free, water-miscible release agent for hot forming of nonferrous metals



Benefits for your application

- Good flowing properties of pressed parts
- Smooth surface finish
- Low smoke formation
- Low degree of contamination
- Easy cleaning of tools
- Long tool life
- Economical application

Description

WOLFRACO WF 51 W is a pigment-free, water-miscible release agent based on mineral oil for hot forming of brass and aluminum.

WOLFRACO WF 51 W reduces friction between the die and the formed part even at die temperatures above 300°C. The lubricant film improves the material flowing properties particularly under extreme conditions ensuring the formation of a smooth material surface finish.

Application

WOLFRACO WF 51 W is used for hollow and solid pressing of copper alloys, mixing ratio 1:1 to 1:8, and for hot forming of aluminum, mixing ratio 1:1 to 1:12, as well as for pressure diecasting applications, e.g.

- valves and fittings (brass)
- synchronization rings with internal and external gears (brass)
- wheel suspensions, suspension arms (aluminum)
- small garnishes for the furniture industry (brass and aluminum)

Application notes

WOLFRACO WF 51 W is a ready-to-use product which is applied to the die by spraying or by brush. It does not ignite at common die temperatures. There is very little smoke and residue formation in the die, i.e. press contamination is therefore reduced to a minimum.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	WOLFRACO WF 51 W
Drum 60 l	+
Drum 200 l	+

Product data	WOLFRACO WF 51 W
Article number	042122
Chemical composition	silicone copolymer
Chemical composition	emulsifier
Chemical composition, solvent	water
Chemical composition, type of oil	mineral oil
Density, DIN 51757, 20 °C	approx. 0.98 g/cm ³



WOLFRACO WF 51 W

Pigment-free, water-miscible release agent for hot forming of nonferrous metals

Product data	WOLFRACO WF 51 W
Colour space	white
Stability test of the concentrate 1:40 mixed with water, temperature 25 °C, stable	7 d
Runout time, DIN EN ISO 2431, with flow cups, 3 mm nozzle	approx. 24 s
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	12 months

Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 80 years.

**Klüber Lubrication München SE & Co. KG /
Geisenhausenerstraße 7 / 81379 München / Germany /
phone +49 89 7876-0 / fax +49 89 7876-333.**

The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

Publisher and Copyright: Klüber Lubrication München SE & Co. KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München SE & Co. KG and if source is indicated and voucher copy is forwarded.