

# WOLFRACO WF 51 W

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



## Your benefits at a glance

- 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

## Your requirements - our solution

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

## 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)

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 notes

WOLFRACO WF 51 W should be carefully homogenized prior to application, e.g. by stirring or shaking. 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](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	WOLFRACO WF 51 W
Canister 10 l	+
Drum 200 l	+

Characteristics	WOLFRACO WF 51 W
Article number	042122
Composition	emulsifier , silicone copolymer
Composition, solvent	water
Composition, type of oil	mineral oil

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Characteristics	WOLFRACO WF 51 W
Colour space	white
Density, DIN 51757, 20°C	approx. 0.99 g/cm <sup>3</sup>
Solid matter content, Klüber method: GSZ00097, equipment: halogen dryer, 160°C	approx. 23.3 % by weight
Flow time, DIN EN ISO 2431, equipment: flow cup, 4 mm nozzle	approx. 10 s
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx. 12 months	

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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 90 years.

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