

# NONTROP ZB 91 DIN

Grease for propane, butane, natural and town gas valves & fittings in acc. with DIN EN 377



## Benefits for your application

- Tested and approved by DVGW acc. to DIN EN 377 class D
- Good adhesion
- Neutral towards copper and copper alloys
- High thermal stability
- Neutral towards DIN EN 377 elastomers, e.g. SRE-NBR 1

## Description

NONTROP ZB 91 DIN is a thermally stable lubricating, sliding and sealing agent based on mineral oil and silicate

The grease is approved acc. to:

DIN EN 377 class D

DIN DVGW-Reg.-No. NG-5162AR0882

## Application

NONTROP ZB 91 DIN is used as a lubricating, sliding and sealing agent in all kinds of gas installations and corresponding accessory parts in contact with combustible gas. For example, valves, tap cocks, ball valves in cookers and heaters with an operating temperature range acc. to DIN EN 377 from 0°C to 140°C, in context with gas and gas mixtures like natural and town gas, propane and butane acc. to DVGW worksheet G 260.

## Application notes

Apply a thin and uniform layer by means of brush, spatula or suitable metering systems onto the thoroughly cleaned and degreased lube points.

## 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	NONTROP ZB 91 DIN
Can 1 kg	+
Tube 25 g	+
Bucket 25 kg	+

Product data	NONTROP ZB 91 DIN
Article number	001031
Chemical composition, type of oil	mineral oil
Chemical composition, thickener	silicate
Lower service temperature	0 °C / 32 °F
Upper service temperature	150 °C / 302 °F
Colour space	brown
Texture	fibrous
Texture	homogeneous
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	210 x 0.1 mm



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Product data	NONTROP ZB 91 DIN
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	240 x 0.1 mm
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment: rotational viscometer, lower limit value	13 000 mPas
Shear viscosity at 25°C, shear rate 300 s <sup>-1</sup> , equipment:rotational viscometer, upper limit value	19 000 mPas
Copper corrosion, DIN 51811, (lubricating grease), 24h/140°C	2 - 140 corrosion degree
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 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 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.

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