

Klüberbio ALO 32-4000

Ultimately biodegradable lubricant for railway switches



Your benefits at a glance

- Trouble-free operation due to low friction resistance over a wide temperature range
- Good UV resistance prevents rapid gumming of the applied lubricant after long exposure to sunlight
- Extended relubrication intervals due to good corrosion protection and resistance to washout by rain
- Low operating costs due to considerably lower lubricant consumption and less manpower for relubrication
- Eco-compatible due to its ultimate biodegradability

Your requirements - our solution

Klüberbio ALO 32-4000 is a synthetic, ultimately biodegradable special lubricant for railway switches.

As Klüberbio ALO 32-4000 offers good corrosion- and wear protection and is resistant to washout by rain, lubrication intervals can be extended.

The product is effectively protected against UV light, which prevents rapid gumming in sunlight and hence an increase of switch setting forces.

Application

Klüberbio ALO 32-4000 was developed for the lubrication of railway switch slide plates where it might drip off and pose a hazard to the environment.

Application notes

Klüberbio ALO 32-4000 is applied by brush or spatula. Application via portable spraying devices is also possible at temperatures down to 0 °C. For lower temperatures, check if the product can be sprayed in the individual case.

Relubrication intervals depend on ambient conditions, rain/snow and the frequency with which the switches are set.

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	Klüberbio ALO 32-4000
Can 1 kg	+
Bucket 5 kg	+
Bucket 25 kg	+

Characteristics	Klüberbio ALO 32-4000
Article number	009019
Colour space	beige
Texture	homogeneous , short fibrous
Service temperature, lower limit	-30 °C
Service temperature, upper limit	80 °C

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Characteristics	Klüberbio ALO 32-4000
Biodegradability, OECD 301 F, 28, within days	≥ 60 %
Density, Klüber method: PN 024, 20°C	approx. 0.97 g/cm ³
Worked penetration, Klein, 25°C, lower limit	550 0.1 mm
Worked penetration, Klein, 25°C, upper limit	750 0.1 mm
Corrosion test, Klüber method: PA 060, (based on the withdrawn standard DIN 51355)	0 corrosion degree
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 90 years.

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