

# Klüberlub BVH 71-461

High-temperature lubricating grease for bearings and valves



## Benefits for your application

- Lubricating grease for extreme requirements
- Efficient at increased temperatures, vibrations and shock loads
- Resistant to ageing and oxidation
- Good protection against wear
- Good anticorrosion properties
- High pressure absorption capacity
- Resistant to aggressive media
- Good sealing effect
- Has proven effective in coke oven gas valves

## Description

Klüberlub BVH 71-461 is a special lubricating grease based on mineral oil/synthetic hydrocarbon oil/polyurea. It has a wide service temperature range and is suitable for rolling bearings up to a service temperature of 160 °C.

Klüberlub BVH 71-461 ensures excellent wear protection, and its EP additives provide a high pressure absorption capacity.

It is very adhesive and resistant to water under static and dynamic loads.

Klüberlub BVH 71-461 is also particularly resistant to oxidation and ageing and reliably protects against corrosion. It has an especially high sealing effect in coke oven valves.

## Application

Klüberlub BVH 71-461 is suitable for rolling bearings subject to high temperatures, shock loads and/or aggressive liquids or active detergents. It has proven effective in electric motors, pumps and fans.

Klüberlub BVH 71-461 is also suitable for plain bearings operating under mixed friction conditions, where it reduces the temperature and friction in the friction points. Its high efficiency

under extreme conditions makes Klüberlub BVH 71-461 an ideal grease for many applications in the base materials and construction industries, iron and steelworks, as well as coke ovens (gas valve grease).

## Application notes

Klüberlub BVH 71-461 is applied by brush, spatula, grease gun, or automatic metering system. It is also applicable through all conventional centralized lubrication systems.

Pipe friction values were determined with the Shell-DELMON rheometer system.

## 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.

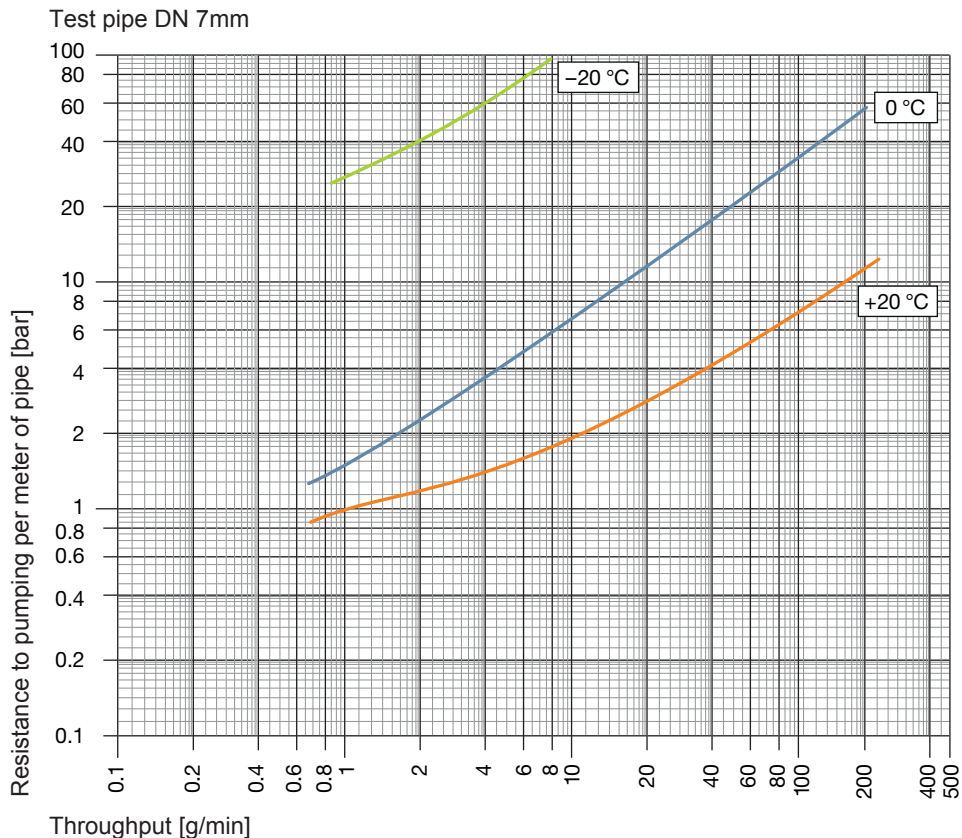
Pack sizes	Klüberlub BVH 71-461
Cartridge 400 g	+
Bucket 25 kg	+
Drum 180 kg	+

# Klüberlub BVH 71-461

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Product data	Klüberlub BVH 71-461
Article number	020506
Lower service temperature	-20 °C / -4 °F
Upper service temperature	160 °C / 320 °F
Colour space	brown
Density at 20 °C	approx. 0.90 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	340 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	370 x 0.1 mm
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Drop point, DIN ISO 2176, IP 396	> 240 °C
Flow pressure of lubricating greases, DIN 51805, test temperature: -20 °C	< 1 400 mbar
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	1 - 90
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months

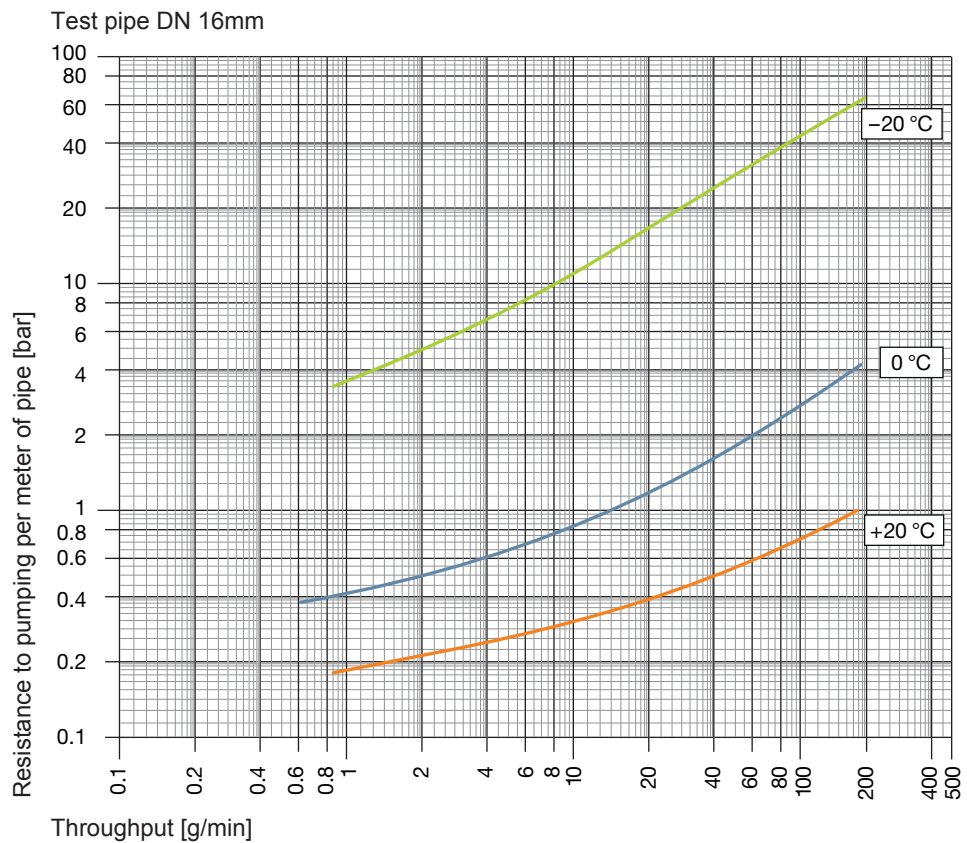
## Pipe friction values





**Pipe friction values measured with rheometer (system: Shell-DELIMON)**

Test pipe DN 7 mm	Resistance to pumping [bar/m]			
	1 g/min	10 g/min	100 g/min	200 g/min
+ 20 °C	0.93	1.95	6.7	10.7
0 °C	1.53	6.3	33	55
- 20 °C	28.2	> 100		



**Pipe friction values measured with rheometer (system: Shell-DELIMON)**

Test pipe DN 16 mm	Resistance to pumping [bar/m]			
	1 g/min		1 g/min	
+ 20 °C	0.22	+ 20 °C	0.22	+ 20 °C
0 °C	0.44	0 °C	0.44	0 °C
- 20 °C	3.63	- 20 °C	3.63	- 20 °C



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## 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.

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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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