

PETAMO GHY 133 N

Long-term and high-temperature grease for rolling bearings



Your benefits at a glance

- Reduced maintenance due to lifetime lubrication
- Wide service temperature range allows a variety of applications
- Reliable operation and long service life due to excellent protection against wear and corrosion, especially in water pump bearings and clutch release bearings

Your requirements - our solution

PETAMO GHY 133 N is a high-performance lubricating grease for rolling bearings subject to high temperatures. It has the following advantages:

- Resistance to high temperatures
- High resistance to oxidation
- Efficient wear protection even at high temperatures
- Good corrosion protection
- Good water resistance

The high performance level of PETAMO GHY 133 N is achieved by means of selected product constituents such as polyurea thickener, mineral oil, synthetic hydrocarbon oil and additives, as well as the production technology.

Application

PETAMO GHY 133 N is suitable for long-term and lifetime lubrication in a variety of applications including:

- Rolling bearings in
 - electric motors
 - fan heaters
 - drying installations
 - textile machines
 - paper machines

- Automotive components, e.g.
 - belt tensioning rollers (rotating outer ring)
 - couplings
 - water pumps
 - fans
 - wheel bearings

In component tests PETAMO GHY 133 N achieves excellent results in terms of service life.

In water pump bearings PETAMO GHY 133 N offers excellent compatibility with coolants containing glycol.

Application notes

PETAMO GHY 133 N can be applied to rolling bearings by means of appropriate automatic or conventional lubrication systems.

PETAMO GHY 133 N has also been tested and approved for contact-free minimum-quantity greasing starting from 0.1 mg by electro-pneumatic jet valves.

As a rule the grease should be applied in a clean environment.

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.

Behaviour towards elastomers and plastics

The following elastomers were tested for resistance to PETAMO GHY 133 N over a period of 168 hours at 100 or 130 °C.

The listed values are the results of sample testing with PETAMO GHY 133 N, closely related to DIN ISO 1817, and are not subject to regular revision. The stated values serve for orientation only and may vary according to the material used and the pretreatment it has undergone. Fixed product data cannot be derived from the test data.

PETAMO GHY 133 N

Long-term and high-temperature grease for rolling bearings



Owing to the many different elastomer compositions we recommend checking their compatibility on the complete component prior to series application.

Material Test temperature	75 FKM 585 130 °C	72 NBR 902 100 °C	70 ACM 121433 130 °C
Change in volume (%), approx.	+ 1	+ 6	+ 7
Change in hardness (SHA), approx.	- 1	- 2	- 8
Tensile strength (%), approx.	- 10	+ 5	- 11
Elongation at tear (%), approx.	- 4	- 11	+ 10

Pack sizes	PETAMO GHY 133 N
Cartridge 400 g	+
Can 1 kg	+
Bucket 25 kg	+
Drum 180 kg	+

Characteristics	PETAMO GHY 133 N
Article number	094061
Composition, thickener	polyurea
Composition, type of oil	mineral oil , synthetic hydrocarbon oil
Colour space	brown
Service temperature, lower limit	-40 °C
Service temperature, upper limit	160 °C
Lubricating greases - K, DIN 51825@DIN 51502	KHC2P-30
Density, Klüber method: PN 024, 20°C	approx. 0.9 g/cm ³
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	265 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	295 0.1 mm
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 18 mm ² /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 165 mm ² /s
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 168 h	≤ 1 corrosion degree
Flow pressure, DIN 51805-2, -30°C	≤ 1400 mbar
Low temperature torque, IP 186, based on standard, equipment: IP 186 / LT3, -40°C, starting torque	≤ 1000 mNm, ≤ 300 mNm
Dropping point, DIN ISO 2176 / IP 396	≥ 250 °C
FAG FE9 rolling bearing test, DIN 51821-2, 1500 / 6000-160, service life F50	≥ 100 h

PETAMO GHY 133 N

Long-term and high-temperature grease for rolling bearings



Characteristics	PETAMO GHY 133 N
Speed factor (n x dm)	approx. 500000 mm/min
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx. 24 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.

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