

# PETAMO GY 193

Tried-and-tested grease for the high-temperature and long-term lubrication of rolling bearings



## Benefits for your application

- Long-standing field experience confirms the long-term lubricating effect of PETAMO GY 193 Operating costs are reduced
- Economical lubrication of rolling bearings in many applications
- Minimized risk in new applications
- Owing to its exceptional additives, PETAMO GY 193 prevents corrosion damage

## Description

PETAMO GY 193 is a synthetic high-temperature grease based on high-quality ester oils, polyurea thickener and special additives. The grease stands out for its excellent water resistance and corrosion protection.

With an above average base oil viscosity of approx. 160 mm<sup>2</sup>/s at 40°C, PETAMO GY 193 is suitable for manifold applications in machine building.

## Application

Depending on the service temperature, PETAMO GY 193 can be used for lifetime lubrication or relubrication. Experience has shown that lifetime lubrication is possible with temperatures below 150°C, for example in electric motors, fans, carrier and guide rollers, chain wheels, sealed or capped rolling bearings. In relubricatable rolling bearings subject to very high temperatures the grease can be used up to 180°C (e.g. in driers).

PETAMO GY 193 should be selected primarily for lubrication of bearings with point contact loading, but can also be used for bearings with linear contact loading and a high share of sliding friction, e.g. cylindrical roller bearings or tapered roller bearings.

## Application notes

PETAMO GY 193 can be applied by the common lubrication systems like spatula, grease gun or central lubrication systems\*.

\*The product can normally be applied by means of centralised lubricating systems. Please note, however, that due to different system configurations and application conditions the pumpability of the product has to be confirmed for each individual application. We will be pleased to provide assistance in this matter.

## 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	PETAMO GY 193
Cartridge 400 g	+
Can 1 kg	+
Bucket 25 kg	+
Drum 180 kg	+

Product data	PETAMO GY 193
Article number	094046
Chemical composition, type of oil	ester oil
Chemical composition, thickener	polyurea
Lower service temperature	-20 °C / -4 °F



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Product data	PETAMO GY 193
Upper service temperature	180 °C / 356 °F
Colour space	beige
Texture	fibrous
Texture	homogeneous
Density at 20 °C	approx. 1.03 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	270 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	310 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 160 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 17.5 mm <sup>2</sup> /s
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Flow pressure of lubricating greases, DIN 51805, test temperature: -20 °C	<= 1 400 mbar
Drop point, DIN ISO 2176, IP 396	>= 240 °C
Speed factor (n x dm)	approx. 400 000 mm/min
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 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 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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