

# PETAMO GHY 441, 443

High-temperature and long-term lubricant for rolling bearings subject to high loads



## Benefits for your application

- **Tried-and-tested grease for long-term lubrication, less maintenance and high reliability**
- **Good load-carrying capacity prevents wear, hence longer bearing life**
- **Excellent water resistance and corrosion protection prevent premature bearing failure and help to reduce maintenance costs**
- **Reduction in grease consumption and high resistance to oxidation and ageing due to the synthetic grease formulation**

## Description

PETAMO GHY 443 and PETAMO GHY 441 (recommended for relubrication due to its softer consistency) are special lubricating greases based on ester oil and polyurea thickener. The greases have been especially designed for the lubrication of rolling and plain bearings subject to high loads and temperatures. Being an efficient alternative to mineral oil based products, PETAMO GHY 443 and PETAMO GHY 441 achieve a much longer service life and therefore help to reduce maintenance costs. Due to their high base oil viscosity and excellent thermal stability they are mainly used for large rolling bearings.

## Application

For the initial and relubrication of rolling and plain bearings subject to high temperatures in general machinery, electric motors, load rollers in conveyors, roller bearings and continuous

wood panel presses, load rollers in continuous casting machines and many other applications.

## Application notes

The greases can be applied by spatula, brush, grease gun or via centralized lubrication systems (PETAMO GHY 441). Prior to initial application please check compatibility with current greases and pre-clean bearings, where necessary.

## Material safety data sheets

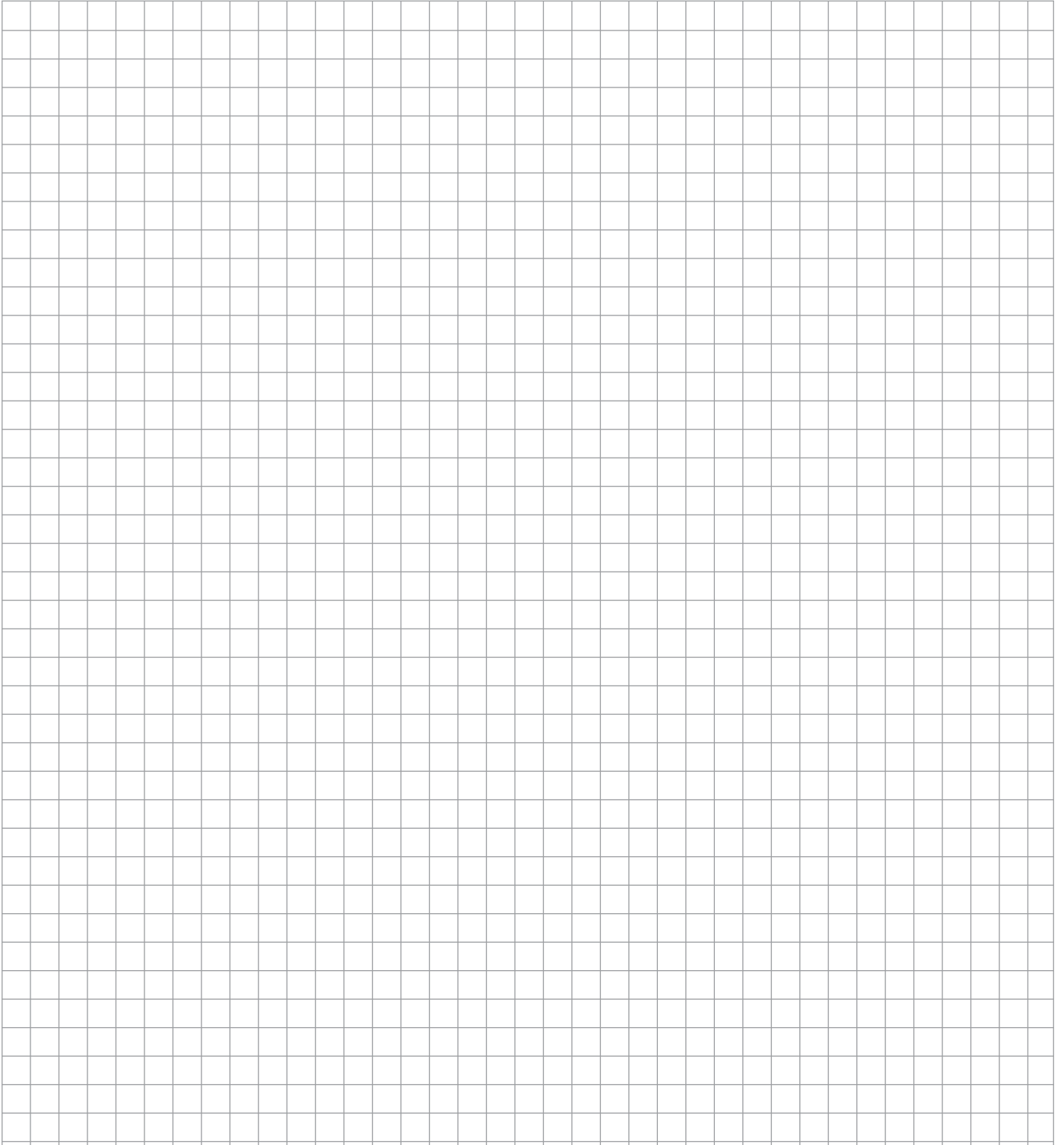
Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	PETAMO GHY 441	PETAMO GHY 443
Cartridge 400 g	+	+
Can 1 kg	+	+
Bucket 25 kg	+	+

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Product data	PETAMO GHY 441	PETAMO GHY 443
Article number	094051	094052
Lower service temperature	-30 °C / -22 °F	-20 °C / -4 °F
Upper service temperature	180 °C / 356 °F	180 °C / 356 °F
Colour space	beige	beige
Texture	homogeneous	homogeneous
Texture	fibrous	fibrous
Density at 20 °C	approx. 0.97 g/cm <sup>3</sup>	approx. 0.97 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	340 x 0.1 mm	280 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	310 x 0.1 mm	250 x 0.1 mm
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 36 mm <sup>2</sup> /s	approx. 36 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 440 mm <sup>2</sup> /s	approx. 440 mm <sup>2</sup> /s
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree	<= 1 corrosion degree
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree	<= 1 corrosion degree
Flow pressure of lubricating greases, DIN 51805, test temperature: -20 °C		<= 1 400 mbar
Flow pressure of lubricating greases, DIN 51805, test temperature: -30 °C	<= 1 400 mbar	
Drop point, DIN ISO 2176	>= 250 °C	>= 250 °C
Speed factor (n x dm)	approx. 250 000 mm/min	approx. 250 000 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	12 months





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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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