

# PETAMO GHY 441, 443

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



## Your benefits at a glance

- 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

## Your requirements - our solution

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	+	+
Drum 180 kg	+	

Characteristics	PETAMO GHY 441	PETAMO GHY 443
Article number	094051	094052
Colour space	beige	beige
Texture	fibrous , homogeneous	fibrous , homogeneous
Service temperature, lower limit	-30 °C	-20 °C
Service temperature, upper limit	180 °C	180 °C

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Characteristics	PETAMO GHY 441	PETAMO GHY 443
Density, Klüber method: PN 024, 20°C	approx. 0.97 g/cm <sup>3</sup>	approx. 0.97 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	310 0.1 mm	250 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	340 0.1 mm	280 0.1 mm
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 36 mm <sup>2</sup> /s	approx. 36 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 440 mm <sup>2</sup> /s	approx. 440 mm <sup>2</sup> /s
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 168 h	≤ 1 corrosion degree	≤ 1 corrosion degree
Flow pressure, DIN 51805-2, -20°C		≤ 1600 mbar
Flow pressure, DIN 51805-2, -30°C	≤ 1400 mbar	
Dropping point, DIN ISO 2176 / IP 396	≥ 250 °C	≥ 250 °C
Speed factor (n x dm)	approx. 250000 mm/min	approx. 250000 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

## 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 95 years.

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