PETAMO GHY 441, 443

High-temperature greases with high load carrying capacity

Description

PETAMO GHY 443 and PETAMO GHY 441 are special lubricating greases based on ester oil and polyurea thickener. They are used for long-term and lifetime lubrication of rolling and plain bearings subject to high loads and elevated temperatures. PETAMO GHY 441 and 433 incorporate high viscosity base oils with excellent thermal stability. Manufactured in differing NLGI consistency classes PETAMO greases cover a wide range of applications and conditions.

Application

High-temperature lubrication of rolling bearings, plain bearings, electric motor bearings, load rollers in conveyors, roller bearings in continuous wood panel presses, load rollers in continuous casting machines.

Application notes

PETAMO greases can be applied by spatula, brush, pressure grease gun or via centralized lubrication systems. (Petamo GHY 441 is the preferred grade for automatic dispensing). Prior to initial application please check compatibility with current greases and pre clean bearings, where necessary.

Minimum shelf life

The minimum shelf life is approx. 24 months if the product is stored in its unopened original container in a dry place.

Pack sizes

400	g	grease cartridge
1	kg	can
25	kg	bucket

PETAMO GHY 441, 443

- Long-term and lifetime lubrication
- High thermal stability
- Good wear protection
- Good corrosion protection
- Good sealing effect
- High ageing and oxidation resistance

Product data

	PETAMO GHY 441	PETAMO GHY 443
Service temperature range*, °C, approx.	–30 to 180	–20 to 180
Colour	light beige	beige
Texture	homogeneous, fibrous	homogeneous fibrous
Drop point, DIN ISO 2176, °C	> 250	> 250
Worked penetration, DIN ISO 2137, (0.1 mm)	310 to 340	250 to 280
Speed factor**, (n x d_m)	250,000	250,000
Flow pressure, DIN 51805 at –20 °C, mbar at –30 °C, mbar	 < 1400	< 1400
Base oil viscosity, DIN 51562, part 01 at 40 °C, mm^2/s, approx. at 100 °C, mm^2/s, approx.	 440 38	 440 38
Rolling bearing grease test FAG FE8, angular contact thrust ball bearing, 7.5 min^{-1}/80 kN, rolling bearing wear	...	passed

* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

** Speed factors are guide values which depend on the type and size of the rolling bearing type and the local operating conditions, which is why they have to be confirmed in tests carried out by the user in each individual case.

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