

# ASONIC® GLY 32

Low-temperature lubricating grease for high-speed, low-noise rolling bearings



## Description:

ASONIC GLY 32 is a synthetic low-noise lubricating grease manufactured in a clean environment.

The product components used and the grease's low base-oil viscosity yield a very high speed factor and a low frictional torque, as can be seen from the results of measurements made on the low-temperature test rig.

## Application:

ASONIC GLY 32 is used, for example, for the long-term or lifetime lubrication of rolling bearings in electric motors in applications where a low starting-up torque at low temperatures is required.

As examples of the multitude of highly specialised applications of ASONIC GLY 32, the following may be mentioned.

- Miniature and small bearings in fans, motors and pumps contained in precision equipment, household appliances and automobile air conditioners
- Integrated bearing units in audio and video equipment, computer peripherals and office equipment

## Application notes:

The lubricant is applied by means of a spatula, brush, grease gun or grease cartridge. For use in automatic lubricating systems, the pumpability of the lubricant should be checked.

## Minimum shelf life:

Approx. 36 months if the product is stored in the closed original container in a dry place.

## Pack sizes:

1-kg can  
25-kg bucket

## ASONIC GLY 32

- Low-temperature rolling bearing grease
- Synthetic lubricant
- Low noise
- High purity
- Low frictional torque

## Behaviour towards elastomers and plastics

The following elastomers were statically tested for resistance to ASONIC GLY 32.

Medium	Material	Time/temp. h / °C	Change in volume (%)	Shore hard- ness A	Tensile strength (%)	Elonga- tion at break (%)
ASONIC GLY 32	75 FKM 602	168 / 150	3		– 8	– 3
ASONIC GLY 32	83 FKM 575	168 / 150	6		– 10	1
ASONIC GLY 32	72 NBR 902	168 / 100	18	– 9	– 19	– 25
ASONIC GLY 32	72 NBR 902	168 / 130	19	– 10	– 32	– 52

## Prior to series application we recommend testing the compatibility of the grease and the pertinent materials.

(Our test results were obtained with random samples and cannot substitute your own in-house tests.)

## Product data:

Base oil / thickener	Synthetic hydrocarbon, ester oil / lithium soap
Service temperature range*, °C	– 50 to 140
Colour	Beige to light yellow
Drop point, DIN ISO 2176, °C	> 190
Consistency grade, DIN 51 818, NLGI	2
Apparent dynamic viscosity, Klüber viscosity grade**	L
Water resistance, DIN 51 807, pt. 1, 3 h / 90 °, rating level	1 – 90
Corrosion protection of lubricating greases, DIN 51 802, (SKF-Emcor), test duration: 1 week, distilled water, degree of corrosion	1
Kinematic viscosity of base oil, DIN 51 562, pt. 01, Ubbelohde at 40 °C, mm <sup>2</sup> /s, approx. at 100 °C, mm <sup>2</sup> /s, approx.	25 5
Speed factor*** for deep groove ball bearings, (n x d <sub>m</sub> ) mm/min. approx.	1,000,000
Low-temperature torque in acc. with IP 186/93 at – 50 °C Starting torque, Nmm Running torque, Nmm	< 1,000 < 100
FAG-FE9 test rig for rolling bearing grease, DIN 51 821 pt. 2 A, 6,000 min <sup>–1</sup> , 1,500 N, 140 °C, F <sub>50</sub> in h	> 100
SKF-ROF test rig for rolling bearing grease 10,000 min <sup>–1</sup> , F <sub>a</sub> = 100 N, F <sub>r</sub> = 50 N, 140 °C, F <sub>50</sub> in h, approx.	800

\* 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 mechanical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

\*\* Klüber viscosity grades: EL = extra-light lubricating grease; L = light lubricating grease; M = medium lubricating grease; S = heavy lubricating grease; ES = extra-heavy lubricating grease

\*\*\* 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.

The data in this product information is based on our general experience and knowledge at the time of printing 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 tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.



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