

ASONIC® GHY 72

Synthetic lubricating grease for long-term or lifetime lubrication of rolling bearings



Description:

The high performance ASONIC GHY 72 is due to its optimised mix of product components: ester oil, polyurea thickener, a special additive package, combined in a special and clean manufacturing environment. This ensures the extraordinary features of ASONIC GHY 72 for use in rolling bearings:

- high purity
- low noise
- long shelf life
- high resistance to water
- good corrosion protection

Application:

ASONIC GHY 72 is particularly beneficial for the long-term or lifetime lubrication of parts exposed to a wide service temperature range, e.g. ball bearings in electric motors, fans, air conditioners, automobile generators, computers, CD drives as well as household appliances 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.

Certain polyurea greases solidify during elongated periods of storage. Normally, such increase in consistency does not affect the performance of the lubricating grease and is reversible when the grease is subjected to shearing or working stress.

Pack sizes:

400-g cartridge
1-kg can
25-kg bucket

ASONIC GHY 72

- Wide service temperature range
- Long service life
- Synthetic lubricant
- Low noise

Behaviour towards elastomers and plastics

The following elastomers were statically tested for resistance to ASONIC GHY 72.

Medium	Material	Time/temp. h / °C	Change in volume (%)	Shore hard- ness A	Tensile strength (%)	Elonga- tion at break (%)
ASONIC GHY 72	70 ACM 121433	168 / 150	14	- 14	- 15	- 29
ASONIC GHY 72	75 FKM 585	168 / 150	1.7	- 2	- 8	- 35
ASONIC GHY 72	72 NBR 902	168 / 100	12	- 6	16	3
ASONIC GHY 72	81 VMQ 542	168 / 100	4	- 6	- 12	- 14

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	Ester oil / polyurea
Service temperature range*, °C	- 40 to 180
Colour	beige
Drop point, DIN ISO 2176, °C	> 250
Worked penetration, DIN ISO 2137, at 25 °C; 0.1 mm	250 to 280
Apparent dynamic viscosity, Klüber viscosity grade**	L
Water resistance, DIN 51 807, pt. 1, 3 h / 90 °, rating level	0 – 90
Corrosion protection of lubricating greases, DIN 51 802, (SKF-Emcor), test duration: 1 week, distilled water, degree of corrosion	0/1
Kinematic viscosity of base oil, DIN 51 562, pt. 01, Ubbelohde at 40 °C, mm ² /s, approx. at 100 °C, mm ² /s, approx.	70 9.4
Speed factor*** for deep groove ball bearings, (n x d _m) mm/min. approx.	700,000
Low-temperature torque in acc. with IP 186/93 at - 40 °C Starting torque, Nmm Running torque, Nmm	< 1,000 < 100
SKF-ROF test rig for rolling bearing grease 10,000 min ⁻¹ , F _a = 100 N, F _r = 50 N, 170 °C, F ₅₀ in h	> 1,000

* 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.

** 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

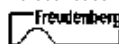
*** Speed factors are guide values which depend on the type and size of the rolling bearing type and the local operating conditions, which is why they have to be confirmed in tests carried out by the user in each individual case.

ASONIC[®] GHY 72

Safety Data Sheet

1.1 Product name: ASONIC GHY 72 Code-No.: 094 049 08.03.2000	9. Physical and chemical properties Form: paste Colour: beige Odour: characteristic Drop point: > 250 °C, DIN ISO 2176 Flash point: > 200 °C (base oil) Flammability: not applicable Ignition temperature: not applicable Autoflammability: not applicable Lower explosion limit: not applicable Upper explosion limit: not applicable Vapour pressure-first: not applicable Density: approx. 0.96 g/cm ³ , 20 °C Water solubility: insoluble pH value: not applicable Kinematic viscosity: not applicable Further information: none
1.2 Klüber Lubrication München KG Geisenhausenerstraße 7 D-81379 München Tel. ++49 - 89 78 76 - 0 telephone exchange Fax: ++49 - 89 78 76 - 333	Emergency telephone no.: ++49 - 89 7876 - 0
2. Composition / information on ingredients Chemical characterization (preparation): Ester oil, polyurea	
3. Hazards identification No particular hazards known	
4. First aid measures After inhalation: Not applicable After contact with skin: Wash off with soap and plenty of water After contact with eyes: Rinse with plenty of water After ingestion: Do not induce vomiting. Obtain medical attention Advice to doctor: Treat symptomatically	10. Stability and reactivity Conditions to avoid: None Materials to avoid: Strong oxidizing agents Hazardous decomposition products: None under normal use Additional information: None
5. Fire-fighting measures Suitable extinguishing media: Water spray, foam, dry powder, carbon dioxide (CO ₂) Unsuitable extinguishing media: High volume water jet Special Hazards: In case of fire the following can be released: Carbon monoxide, hydrocarbons Special protective equipment for firefighters: Standard procedure for chemical fires Additional information: Water mist may be used to cool closed containers. In the event of fire and/or explosion do not breathe fumes	11. Toxicological information The toxicological data has been taken from products of similar composition Acute toxicity: LD ₅₀ /oral/rat = > 2 g/kg (literature data) Chronic toxicity: None Human experience: Prolonged skin contact may cause skin irritation and/or dermatitis
6. Accidental release measures Personal precautions: Not required Environmental precautions: Do not flush into surface water or sanitary sewer system Methods for cleaning up / taking up: Use mechanical handling equipment. Dispose of absorbed material in accordance with the regulations Additional information: None	12. Ecological information Information on elimination (persistence and degradability): Product is insoluble in water. May be separated out mechanically in purification plants Behaviour in environmental compartments: Ecological injuries are not known or expected under normal use Ecotoxic effects: Aquatic toxicity is unlikely due to low solubility Additional information: Should not be released into the environment
7. Handling and storage Advice on safe handling: No special handling advice required Advice on protection against fire and explosion: No special precautions required Requirements on storage rooms and vessels: No special storage conditions required Incompatible materials: Incompatible with oxidizing agents. Do not store together with food Further information on storage conditions: Store at room temperature in the original container	13. Advice on Disposal Disposal: Can be incinerated when in compliance with local, state and federal regulations Dispose of contaminated packaging and recommended cleaning: Offer rinsed packaging material to local recycling facilities
8. Exposure controls / personal protection Additional advice on system design: Not applicable Ingredients and specific control parameters: None Respiratory protection: No special protective equipment required Hand protection: No special protective equipment required Eye protection: No special protective equipment required Body protection: No special protective equipment required Other protection measures: No special protective equipment required General protection and hygiene measures: Avoid prolonged and/or repeated contact with skin. Remove soiled or soaked clothing immediately. Clean skin thoroughly after work; apply skin cream	14. Transport information GGVS / GGVE: not applicable ADN / ADN: not applicable IMDG-Code: not applicable ICAO / IATA-DGR: not applicable Further information: Not classified as dangerous in the meaning of transport regulations
	15. Regulatory information Labelling according to EU-guidelines: The product does not require a hazard warning label in accordance with EC-directives/German regulations on dangerous substances National regulations
	16. Other information Issue-department of Safety Data Sheet: Chemical Documentation, Tel.: ++49 - 89 7876 - 564

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.



Klüber Lubrication München KG, a member of the Freudenberg group