

ASONIC® Q 74-73

Synthetic lubricating grease for high-speed, low-noise rolling bearings



Description:

ASONIC Q 74-73 is a synthetic lubricating grease for rolling bearings exposed to a wide service temperature range. It was especially developed for the lubrication of high-speed ball bearings operating under extremely high temperatures. Its excellent corrosion protection and good ageing resistance make ASONIC Q 74-73 suitable for long-term or lifetime lubrication.

Thanks to the special production technology used in the manufacture of ASONIC Q 74-73, this lubricating grease is of high purity and leads to a low noise level when used in ball bearings.

Application:

Long-term lifetime lubrication of high-speed ball bearings exposed to a wide service temperature range, as are used for example in electric motors, fans, air conditioners and automobile generators, 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:

1-kg can
25-kg bucket

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- For high speeds
- Low-noise
- Good corrosion protection
- Free of silicone oil

Behaviour towards elastomers and plastics

The following elastomers were statically tested for resistance to ASONIC Q 74-73.

Medium	Material	Time/temp. h / °C	Change in volume (%)	Shore hard- ness A	Tensile strength (%)	Elonga- tion at break (%)
ASONIC Q 74-73	ACM 121433	168 / 150	10	-9	-19,4	36
ASONIC Q 74-73	72 NBR 902	168 / 100	5,5	-2	5,4	-12,9

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 oil, ester oil / polyurea
Service temperature range*, °C	-40 to 160
Colour	beige
Drop point, DIN ISO 2176, °C	> 250
Consistency grade, DIN 51 818, NLGI	3
Apparent dynamic viscosity, Klüber viscosity grade**	L / M
Water resistance, DIN 51 807, pt. 1, 3 h / 90 °, rating level	0/1 - 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.	68
at 100 °C, mm ² /s, approx.	10
Speed factor*** for deep groove ball bearings, (n x d _m) mm/min. approx.	1,000,000
Low-temperature torque in acc. with IP 186/93 at -40 °C	
Starting torque, Nmm	< 1,000
Running torque, Nmm	< 100
SKF-ROF test rig for rolling bearing grease	
20,000 min ⁻¹ , F _a = 100 N, F _r = 50 N, 140 °C, F ₅₀ in h, approx.	400
10,000 min ⁻¹ , F _a = 100 N, F _r = 50 N, 160 °C, F ₅₀ in h, approx.	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 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.

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Safety Data Sheet

<p>1.1 Product name: ASONIC Q 74-73 Code-No.: 094 050 08.03.2000</p>	<p>9. Physical and chemical properties Form: paste Colour: beige Odour: characteristic Drop point: > 250 °C, DIN ISO 2176 Flash point: > 250 °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. 0.88 g/cm³, 20 °C Water solubility: insoluble pH value: not applicable Kinematic viscosity: not applicable Further information: none</p>
<p>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</p> <p>Emergency telephone no.: ++49 - 89 7876 - 0</p>	<p>10. Stability and reactivity Conditions to avoid: None Materials to avoid: Strong oxidizing agents Hazardous decomposition products: None under normal use Additional information: None</p>
<p>2. Composition / information on ingredients Chemical characterization (preparation): Ester oil, synthetic hydrocarbon oil, polyurea</p>	<p>11. Toxicological information The toxicological data has been taken from products of similar composition Acute toxicity: LD₅₀/oral/rat = > 2 g/kg (literature data) Chronic toxicity: None Human experience: Prolonged skin contact may cause skin irritation and/or dermatitis</p>
<p>3. Hazards identification No particular hazards known</p>	<p>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</p>
<p>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</p>	<p>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</p>
<p>5. Fire-fighting measures Suitable extinguishing media: Water spray, foam, dry powder, carbon dioxide (CO₂) 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</p>	<p>14. Transport information GGVS / GGVE: not applicable ADN / ADNR: not applicable IMDG-Code: not applicable ICAO / IATA-DGR: not applicable Further information: Not classified as dangerous in the meaning of transport regulations</p>
<p>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</p>	<p>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</p>
<p>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</p>	<p>16. Other information Issue-department of Safety Data Sheet: Chemical Documentation, Tel.: ++49 - 89 7876 - 564</p>
<p>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</p>	

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