

# Klübersynth® VR 69-252

Lubricating grease for drinking water taps with EPDM elastomers



## Description

Klübersynth VR 69-252 is a special lubricating grease based on fatty oil and an inorganic thickener.

This product complies with the recommendations pertaining to synthetic materials in contact with drinking water set forth by the German Health Authority. It shows a high load-carrying capacity and excellent adherence in cold and hot water applications.

Klübersynth VR 69-252 exceeds the required endurance of 200 000 load cycles at a closing force of 2.5 Nm and thus meets the requirements of the European standard DIN EN 200.

## Application

Klübersynth VR 69-252 is suitable for the lubrication of all friction points subject to mechanical loads in spindle heads with EPDM elastomers, check and control valves, taps of shower and heating equipment, and generally for the lubrication of seals requiring a grease which is compatible with EPDM and complies with the drinking water regulations.

## Service temperature range

The indicated service temperatures are guide values which depend on the lubricant composition, the intended purpose of use and the application technology.

Klübersynth VR 69-252 has a service temperature range from -10 °C to +100 °C

## Storage

Storage time approx. one year when stored in original closed containers in a dry place.

## Pack sizes

180 kg drum  
25 kg bucket  
1 kg tin

## Compatibility with elastomers

Test period: 72 h  
Test temperatures: 95 °C

## Klübersynth VR 69-252

- Special lubricating grease for hot and cold water taps
- Especially suitable for spindle heads with EPDM elastomers
- Approved for drinking water applications acc. to DVGW/ KTW
- Complies with the requirements of the European standard DIN EN 200
- Excellent adherence and high load-carrying capacity

Material	Change in volume % approx.	Change in hardness Shore A, approx.
85 NBR 151	+ 4	- 4
70 EPDM 281	+ 3	- 3
85 EPDM 282	+ 3	- 2

## Product characteristics

Colour, aspect	brown-green
Density, DIN 51 757 at 20 °C, g/cm <sup>3</sup>	approx. 1.0
Drop point, DIN ISO 2176, °C	without
Worked penetration at 25 °C, DIN ISO 2137; 0.1 mm	approx. 280 to 310
Apparent viscosity, viscosity class	M/S
Water resistance, DIN 51 807 part 1, after 3 h at 90 °C, rating	0/1 – 90
Copper corrosion, DIN 51 811, after 24 h at 100 °C, corrosion rating	1 – 100

# Klübersynth® VR 69-252

## Safety Data Sheet

<b>1.1 Product name: Klübersynth VR 69-252</b> <b>Code-No. : 012 170</b>	<table border="0"> <tr><td>Drop point</td><td>none °C</td></tr> <tr><td>Flash point</td><td>&gt; 200 °C</td></tr> <tr><td>Flammability</td><td>not applicable</td></tr> <tr><td>Ignition temperature</td><td>not applicable</td></tr> <tr><td>Autoflammability</td><td>not applicable</td></tr> <tr><td>Lower explosion limit</td><td>not applicable</td></tr> <tr><td>Upper explosion limit</td><td>not applicable</td></tr> <tr><td>Vapour pressure – first</td><td>not applicable</td></tr> <tr><td>Density (20 °C)</td><td>≈ 1.0 g/cm<sup>3</sup></td></tr> <tr><td>Water solubility</td><td>insoluble</td></tr> <tr><td>pH value</td><td>not applicable</td></tr> <tr><td>Kinematic viscosity</td><td>not applicable</td></tr> <tr><td>Further information</td><td>None</td></tr> </table>	Drop point	none °C	Flash point	> 200 °C	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 (20 °C)	≈ 1.0 g/cm <sup>3</sup>	Water solubility	insoluble	pH value	not applicable	Kinematic viscosity	not applicable	Further information	None
Drop point	none °C																										
Flash point	> 200 °C																										
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 (20 °C)	≈ 1.0 g/cm <sup>3</sup>																										
Water solubility	insoluble																										
pH value	not applicable																										
Kinematic viscosity	not applicable																										
Further information	None																										
Klüber Lubrication München KG, Geisenhausenerstr. 7 D-81379 Munich; Tel. (089) 7876-0, Fax (089) 7876-333 <b>Emergency no.: (089) 7876-0</b>	<b>10. Stability and reactivity</b>  Conditions to avoid: None Materials to avoid: Strong oxidizing agents Hazardous decomposition products: None under normal use. Additional information: None																										
<b>2. Composition/information on ingredients</b>  Chemical characterization: Fatty oil, silicate Additional information: No hazardous ingredients.	<b>11. Toxicological information</b>  The toxicological data have been taken from products of similar composition. Acute toxicity: LD <sub>50</sub> oral/rat = > 2g/kg (literature data) Chronic toxicity: None Human experience: Prolonged skin contact may cause skin irritation and/or dermatitis.																										
<b>3. Hazards identification</b>  No particular hazards known.	<b>12. Ecological information</b>  Information on elimination: 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: The product has not been tested. Additional information: Should not be released into the environment.																										
<b>4. First aid measures</b>  Contact with skin: Wash off with soap and plenty of water. Contact with eyes: Rinse with plenty of water. Ingestion: Do not induce vomiting. Obtain medical attention. Advice to doctor: Treat symptomatically.	<b>13. Advice on disposal</b>  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.																										
<b>5. Fire-fighting measures</b>  Suitable extinguishing media: Water spray, foam, dry powder, CO <sub>2</sub> Unsuitable extinguishing media: High volume water jet Special hazards: In case of fire can be released: CO, hydrocarbons Special protecting equipment: Standard procedure for chemical fires. Additional information: Do not breathe fumes. Cool closed containers with water.	<b>14. Transport information</b>  GGVS / GGVE: not applicable                      ADN / ADNR: not applicable IMDG / GGVsee: not applicable                      ICAO / IATA: not applicable Further information: Not classified as dangerous in the meaning of transport regulations.																										
<b>6. Accidental release measures</b>  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 acc. with the regulations. Additional information: None	<b>15. Regulatory information</b>  Labelling: The product does not require a hazard warning label.																										
<b>7. Handling and storage</b>  Safe handling: No special handling advice required. Protection against fire and explosion: No special precautions required. Requirements on storage rooms and vessels: — Incompatible materials: Oxidizing agents; do not store together with food. Further information: Store at room temperature in the original container.	<b>16. Other information</b>  None																										
<b>8. Exposure controls / personal protection</b>  Additional advice on system design: Not applicable Ingredients and specific control parameters: None Personal protective equipment Respiratory/hand/eye/body protection: 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.																											
<b>9. Physical and chemical properties</b>  Form:    paste Colour:    brown-green Odour:     characteristic																											

The data in this brochure 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 without, however, constituting an assurance of properties for specific cases. We recommend contacting our Technical Consulting Staff for information regarding specific applications. If required and possible we will be pleased to provide a sample for testing.

