

Klübersynth R 42 111

Synthetic lubricating and assembly grease for seals



Benefits for your application

- **Low friction torque enabling energy savings**
 - **Longer service life of highly loaded radial shaft seals due to long-term optimised lubrication over a long period of time**
 - **Versatile due to very good compatibility with various types of elastomers**
 - **Longer component life due to reduction of leakage**
 - **Easier seal assembly**
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Description

Klübersynth R 42-111 is a dynamically light grease with very good adhesion. This unusual combination of characteristics is due to the special mix of base oils, thickener and additives.

Application

Klübersynth R 42-111 was especially developed for the greasing of radial shaft seals. It is also preferred as an assembly aid and to lubricate elastomer seals.

Due to its particular composition, the product is exceptionally compatible with many frequently used elastomers such as NBR, ACM and FKM.

With its low friction forces, Klübersynth R 42-111 also provides excellent lubrication of radial shaft seals in highly loaded components and gearboxes.

Application notes

The product can be applied by means of brush, spatula or mechanical grease gun. If the grease is to be applied by means of automatic systems, please consult the equipment manufacturer to check if their system will work with the grease.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

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Pack sizes	Klübersynth R 42-111
Cartridge 400 g	+
Can 1 kg	+
Bucket 25 kg	+

Product data	Klübersynth R 42-111
Article number	094119
Chemical composition, type of oil	ester oil
Chemical composition, type of oil	synthetic hydrocarbon oil
Chemical composition, thickener	special lithium soap
Colour space	brown
Lower service temperature	-40 °C / -40 °F
Upper service temperature	150 °C / 302 °F
Density at 20 °C	approx. 0.92 g/cm ³
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 110 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 14 mm ² /s
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	300 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	330 x 0.1 mm
Drop point, DIN ISO 2176, IP 396	>= 250 °C
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Compatibility with elastomers, 72 NBR 902 ,1008h/ 100°C, hardness (Shore A), based on DIN 53505	0 (+/-2 SHA) unit
Compatibility with elastomers, 72 NBR 902 ,1008h/ 100°C, elongation at tear, based on DIN 53504	-14 (+/- 15%) %
Compatibility with elastomers, 72 NBR 902 ,1008h/ 100°C, change in volume, DIN 53521/8.2	+1 (+/- 2%) %
Compatibility with elastomers, 72 NBR 902 ,1008h/ 100°C, tensile strength, based on DIN 53504	+2 (+/- 7,5%) %
Compatibility with elastomers, 75 FKM 585 ,1008h/ 150°C, hardness (Shore A), based on DIN 53505	-1 (+/- 2 SHA) unit
Compatibility with elastomers, 75 FKM 585 ,1008h/ 150°C, elongation at tear, based on DIN 53504	-22 (+/-15%) %
Compatibility with elastomers, 75 FKM 585,1008h/ 150°C, change in volume, DIN 53521/8.2	+5 (+/- 2%) %
Compatibility with elastomers, 75 FKM 585 ,1008h/ 150°C, tensile strength, based on DIN 53504	+15 (+/- 7,5%) %
Compatibility with elastomers, FKM 260466 ,1008h/ 150°C, hardness (Shore A), based on DIN 53505	-1 (+/-2 SHA) unit
Compatibility with elastomers, FKM 260466,1008h/ 150°C, elongation at tear, based on DIN 53504	-8 (+/- 15%) %
Compatibility with elastomers, FKM 260466,1008h/ 150°C, change in volume, DIN 53521/8.2	1 (+/-2%) %



Product data	Klübersynth R 42-111
Compatibility with elastomers, FKM 260466 ,1008h/ 150°C, tensile strength, based on DIN 53504	+10 (+/- 7,5%) %
Flow pressure of lubricating greases, DIN 51805, test temperature: -40 °C	<= 1 400 mbar
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months

Material Time/Test temperature	72 NBR 902 1008h/100 °C	75 FKM 585 1008h/150 °C	FKM 260466 1008h/150 °C
Change in volume (%)	1	5	1
Hardness (Shore A)	0	-1	-1
Tensile strength (%)	2	15	10
Elongation at tear (%)	-14	-22	-8



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Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 80 years.

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