

Rapporto per 6324 Tutti i risultati si riferiscono all'uso continuo (24/7).

Input

Bearing data	
Designation	6324
Design	Radial deep groove ball bearing
Series	63
Basic load ratings	
Basic static load rating (C0)	195.000 N
Basic dynamic load rating (C)	225.000 N

Load	
Load levels	high (C0/P approx. 5)

Bearing dimensions	
Width (B)	55 mm
Outside diameter (D)	260 mm
Inside diameter (d)	120 mm

Operating conditions	
Type of movement	rotating
Relative speed (n_rel)	850 1/min

Temperatures	
Operating temperature (Theta)	70 °C
Ambient temperature (t)	40 °C
Environmental influence	0.8 (moderate)

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Risultati ordinati in base all'intervallo di rilubrificazione (3/3 grassi)

Non-Schaeffler High-Temperature Grease	
Quantità iniziale di grasso *	225 g/250 cm³
Quantity of relubrication automatica per 365 days *	210,2 g/365 giorni
	233,6 cm³/365 giorni
Massima quantità di rilubrificazione manuale/Intervallo di rilubrificazione *	123,8 g/215 giorni
	137,6 cm³/215 giorni
Quantity of relubrication per 1000 operating hours *	24 g/1000 hours
	26,7 cm³/1000 hours
Durata del grasso *	~ 432 giorni
Intervallo di rilubrificazione *	~ 215 giorni
Quantity of relubrication per 30 days *	17,3 g/30 giorni
	19,2 cm³/30 giorni
Quantity of relubrication per 7 days *	4 g/7 giorni
	4,5 cm³/7 giorni
Limite di temperatura inferiore	-30 °C
Limite di temperatura superiore	160 °C
Additivo richiesto	n.d.
Additivazione EP efficace	n.d.
Basso attrito	n.d.
Adatto per le vibrazioni	n.d.
Supporto per tenuta	n.d.
Registrazione H1 (certificazione Kosher e Halal NSF-H1)	n.d.

Arcanol MULTITOP	
Ester/Min/SHC oil, NLGI2, Lithium soap	
Quantità iniziale di grasso *	217,5 g/250 cm³
Quantity of relubrication automatica per 365 days *	54 g/365 giorni
	62 cm³/365 giorni
Massima quantità di rilubrificazione manuale/Intervallo di rilubrificazione *	54 g/365 giorni
	62 cm³/365 giorni
Quantity of relubrication per 1000 operating hours *	6,2 g/1000 hours
	7,1 cm³/1000 hours
Durata del grasso *	~ 1.592 giorni
Intervallo di rilubrificazione *	~ 796 giorni
Quantity of relubrication per 30 days *	4,4 g/30 giorni
	5,1 cm³/30 giorni
Quantity of relubrication per 7 days *	1 g/7 giorni
	1,2 cm³/7 giorni
Rapporto di viscosità	2,27
Viscosità olio base a 40 °C.	82 mm²/s
Limite di temperatura inferiore	-50 °C
Limite di temperatura superiore	140 °C
Additivo richiesto	no
Additivazione EP efficace	yes
Densità	0,87 kg/dm³
Basso attrito	+ (molto adatto)
Adatto per le vibrazioni	+ (molto adatto)
Supporto per tenuta	0 (adatto)
Registrazione H1 (certificazione Kosher e Halal NSF-H1)	no

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Arcanol TEMP110	
Synthetic oil, NLGI2, Lithium/complex soap	
Quantità iniziale di grasso *	225 g/250 cm ³
Quantity of relubrication automatica per 365 days *	210,2 g/365 giorni
	233,6 cm ³ /365 giorni
Massima quantità di relubrificazione manuale/Intervallo di relubrificazione *	123,8 g/215 giorni
	137,6 cm ³ /215 giorni
Quantity of relubrication per 1000 operating hours *	24 g/1000 hours
	26,7 cm ³ /1000 hours
Durata del grasso *	~ 432 giorni
Intervallo di relubrificazione *	~ 215 giorni
Quantity of relubrication per 30 days *	17,3 g/30 giorni
	19,2 cm ³ /30 giorni
Quantity of relubrication per 7 days *	4 g/7 giorni
	4,5 cm ³ /7 giorni
Rapporto di viscosità	2,89
Viscosità olio base a 40 °C.	130 mm ² /s
Limite di temperatura inferiore	-35 °C
Limite di temperatura superiore	160 °C
Additivo richiesto	no
Additivazione EP efficace	yes
Densità	0,9 kg/dm ³
Basso attrito	+ (molto adatto)
Adatto per le vibrazioni	0 (adatto)
Supporto per tenuta	0 (adatto)
Registrazione H1 (certificazione Kosher e Halal NSF-H1)	no

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Errori, avvertenze e note

Warnings

Relubrication should be carried out once a year.

- Arcanol MOTION 2
- Arcanol MULTITOP
- Arcanol MULTI3
- Arcanol LOAD150
- Arcanol LOAD400

A grease service life >3 years must be agreed with the lubricant supplier with regard to the respective application. The guide value issued in Bearinx for the grease service life is limited to 5 years. In individual cases, grease usage durations greater than 5 years are also possible. If necessary, please contact the Schaeffler engineering service, that can advise you on the basis of the practical experience.

Very high kappa values and corresponding friction losses occur at the present operating speed for the following lubricating greases:

- Arcanol LOAD1000
- Arcanol TEMP200

The operating temperature is below the recommended minimum operating temperature for the following greases:

- Arcanol TEMP120 (70.0 °C < 80.0 °C)
- Arcanol TEMP200 (70.0 °C < 150.0 °C)

Notes

As the simplified load input via load levels has been used, the thermally safe operating speed as well as the static load safety are not checked.

Calculation of the grease service life and the relubrication interval corresponds to the catalog method. The internal geometry and the internal load distribution are not taken into consideration in the calculation. If you have any questions relating to selection of a suitable grease, please contact the Schaeffler engineering service. If the axis of rotation is vertical, the supply of lubricant to the contact must be checked.

In the Grease App, fatigue life is not considered or calculated. Please check this separately.

When calculating the amount of lubricant, only the volume of the bearing is taken into account, while the free space of the surrounding construction and the volume of the supply lines are not considered.

The specified grease quantities are only guide values, which may be deviated from based on practical experience. In case of questions, please contact the Schaeffler engineering service.

The use of an automatic lubricator CONCEPT1 does not make sense due to low relubrication quantities/time. Please re-lubricate manually.

- Arcanol MOTION 2
- Arcanol MULTITOP
- Arcanol MULTI3
- Arcanol LOAD150

For the Non-Schaeffler Greases the individual properties are unknown. Therefore, criteria on the suitability of the grease are not checked for these greases (e.g., viscosity ratio, additivation, n*dm-limits of the grease, thermally safe operating speed, suitability for the CONCEPT1 lubricator).

- Non-Schaeffler Multi-Purpose Grease
- Non-Schaeffler High-Temperature Grease

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