



Arcanol Rolling Bearing Greases

For reliable, durable and cost-effective bearing arrangements

Technical Product Information

The designation system of the INA and FAG brands has been harmonised. This publication contains, for the first time, the new ordering designations, which are currently only valid for Europe. Customers outside Europe are requested to continue using the old ordering designations (please see the comparison on page 22).

A grease must go a long way before it can be called Arcanol

Special rolling bearing greases such as Arcanol offer the best conditions for achieving reliable, durable and cost-effective bearing arrangements. For Arcanol gives you certainty, since Schaeffler KG carries out selection tests, provides quality assurance and gives practice-based lubrication recommendations. Bearings that fail prematurely because they were lubricated with the wrong grease, with all the unpleasant and expensive consequences, are increasingly a thing of the past.

In co-operation with renowned lubricant manufacturers, we have for many years developed lubricants that are particularly suitable for rolling bearings. However, before a new grease can be included in the Arcanol range, it is subjected to a series of tests in the Schaeffler lubricant laboratory.

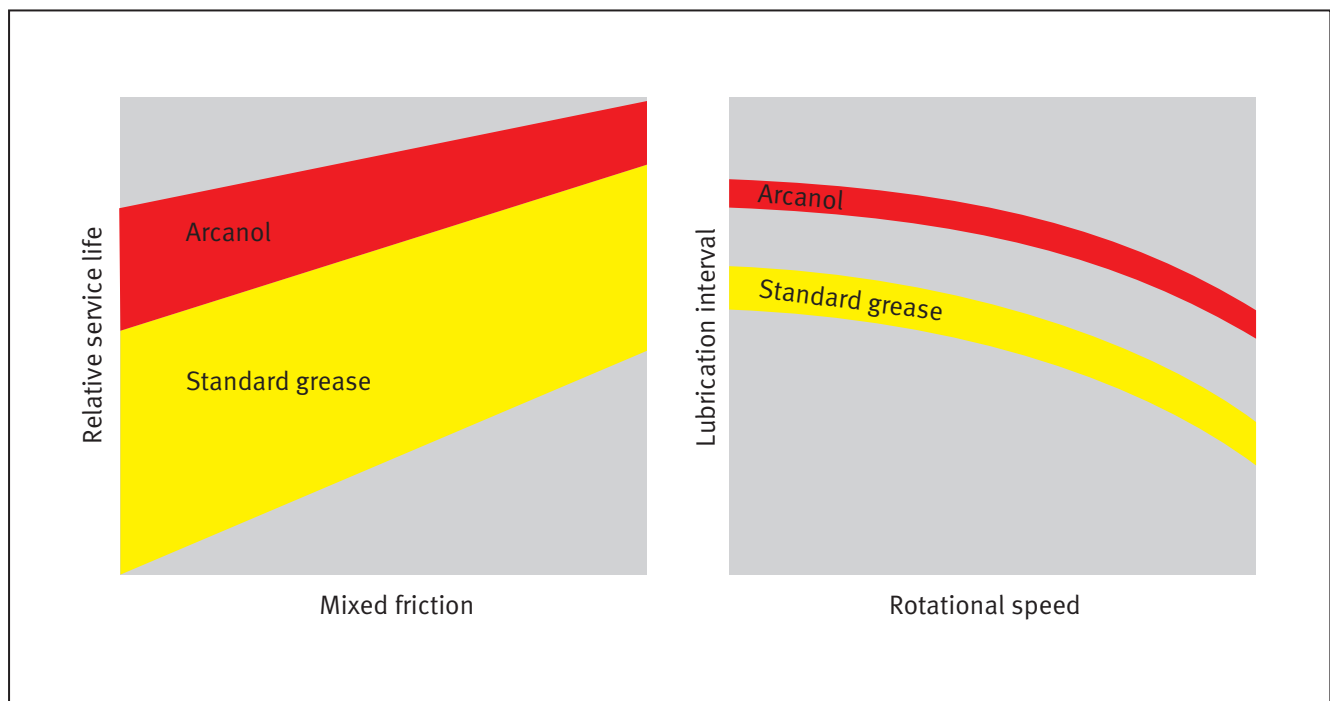
The greases are tested thoroughly. On our lubricant test rigs FE8 (DIN 51819) and FE9 (DIN 51821), the greases are tested in rolling bearings to determine their service life, friction and wear characteristics. Only the best greases are then selected to undergo the subsequent tests under simulated field conditions in far more complex rolling bearing test rigs. If the results fulfil the requirements of the stringent Schaeffler specifications, the grease is “decorated”. It receives the Arcanol seal of quality.

In addition, we test every single batch to ensure the uniform quality of the product. It is only after this final test that approval can be given to designate the grease as Arcanol.

The range is graduated such that almost all areas of application can be optimally covered using these greases.

The overview on pages 2/3 shows chemical-physical data, fields of application and the conditions for which these greases are suitable. The selection of a suitable grease is considerably facilitated by the electronic INA/FAG rolling bearing catalogue.

- **More than 80% of all rolling bearings are lubricated with grease**
- **Inadequate lubrication causes more than 40% of all cases of rolling bearing damage**
- **Users therefore require lubricants and lubrication recommendations they can rely on**
- **Arcanol rolling bearing greases ensure that a bearing can be used to its full capacity**
 - long service life
 - good running behaviour
 - high operational security.



Selection table

Arcanol Previous designation	MULTITOP (L135V)	MULTI2 (L78V)	MULTI3 (L71V)	LOAD150 (-)	LOAD220 (L215V)	LOAD400 (L186V)	LOAD1000 (L223V)
Thickener	Lithium soap	Lithium soap	Lithium soap	Lithium complex	Mixed thickener	Mixed thickener	Mixed thickener
Base oil	Partially synth. oil	Mineral oil	Mineral oil	Mineral oil	Mineral oil	Mineral oil	Mineral oil
Base oil viscosity at 40 °C [mm ² /s]	≥ ISO VG 68	≥ ISO VG 68	≥ ISO VG 68	≥ ISO VG 150	ISO VG 220	≥ 400	ISO VG 1000
Consistency (NLGI class)	2	2	3	2	1 – 2	2	2
Operating temperature [°C]	-40...+140	-30...+120	-30...+120	-20...+140	-20...+140	-20...+140	-20...+140
Continuous limit temperature [°C]	80	75	75	90	80	80	80
Characteristic application areas	Universal grease for ball and roller bearings in rolling mills, construction machinery, automotive engineering, spinning and grinding spindles at increased speeds, high loads, low and high temperatures	Universal grease for ball bearings ØD ≤ 62 mm in small electric motors, agricultural and construction machinery, household appliances	Universal grease for ball bearings ØD > 62 mm in large electric motors, agricultural and construction machinery, fans	Special grease for ball, roller and needle roller bearings, linear guidance systems in machine tools at high loads, wide speed range, swivel motion	Special grease for ball and roller bearings in rolling mill plant, rail vehicles at high loads, wide speed range, high humidity	Special grease for ball and roller bearings in mining machinery, construction machinery, wind turbines at very high loads, moderate temperatures, moderate speed	Special grease for ball and roller bearings in mining machinery, construction machinery, preferably under shock loads and in large bearings at very high loads, moderate temperatures, low speed
Low temperatures	++	+	+	o	o	-	o
High temperatures	o	o	o	o	o	o	o
Low friction, high speeds	+	o	o	-	-	-	--
High loads, low speeds	+	o	o	++	++	++	++
Vibrations	+	o	+	+	+	+	+
Support for seals	o	o	+	+	+	+	+
Relubrication facility	++	++	+	+	+	+	+

ISO VG = ISO viscosity group	++ extremely suitable + highly suitable	o suitable	- less suitable -- not suitable
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TEMP90 (L12V)	TEMP110 (L30V)	TEMP120 (L195V)	TEMP200 (L79V)	SPEED2,6 (L75)	VIB3 (L166V)	BIO2 (-)	FOOD2 (-)
Mixed thickener	Lithium complex	Poly-carbamide	PTFE	Polycarbamide	Lithium complex	Mixed thickener	Aluminium complex
Synthetic oil	Synthetic oil	Synthetic oil	Fluoro polyether oil	Synthetic oil	Mineral oil	Synthetic oil	White oil
≥ ISO VG 100	≥ ISO VG 68	ISO VG 460	ISO VG 220 – 460	≥ ISO VG 22	≥ ISO VG 150	≥ ISO VG 68	≥ ISO VG 100
2	2 – 3	2	2	2 – 3	3	2	1 – 2
-30...+140	-40...+160	-30...+180	-30...+250	-30...+120	-30...+150	-30...+120	-30...+120
90	110	120	200	80	90	80	70
Special grease for ball and roller bearings	Special grease for ball and roller bearings	Special grease for ball and roller bearings	Special grease for ball and roller bearings	Special grease for ball bearings	Special grease for ball and roller bearings	Special grease for ball and roller bearings	Special grease for ball and roller bearings
in couplings, electric motors, automotive engineering	in electrical equipment, automotive engineering	in continuous casting plant	in track rollers in baking automatic equipment piston pins in compressors, kiln trucks, chemical plant	in machine tools, instruments	in blade adjusters in rotors for wind turbines, packaging machinery, rail vehicles	in environmentally harmful applications	in applications with food contact; H1 to USDA
at high temperatures, high loads	at high temperatures, high speeds	at high temperatures, high loads	at very high temperatures, chemically aggressive environments	at very high speeds, low temperatures	at high temperatures, high loads, oscillating motion		
++	++	+	++	++	+	+	+
+	++	++	++	0	+	0	-
0	+	-	--	++	-	0	0
0	0	++	+	--	+	0	0
0	0	0	-	-	++	0	0
0	0	0	0	0	0	0	0
0	0	0	0	+	-	+	++

Universal grease MULTITOP

MULTITOP Universal grease for ball bearings and roller bearings

Typical applications:

- Motor vehicles
- Rolling mills
- Construction machinery
- Spinning and grinding spindles

Suitable for

Low temperatures	++
High temperatures	0
Low friction, high speeds	+
High loads, low speeds	+
Vibrations	+
Support for seals	0
Relubrication facility	++


Rating

- ++ extremely suitable
- + highly suitable
- o suitable

Available containers:

- 250 g tube
- 400 g cartridge
- 1 kg can
- 5 kg bucket
- 10 kg bucket
- 25 kg hobbock
- 180 kg drum

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FAG Rolling Bearing Grease Arcanol MULTITOP

Properties, applications: Bearing grease for high loads, low and high speeds, low and high temperatures, low noise, low friction

Characteristics	Unit	Value	Test method
Marking:		KP2N-40	DIN 51825
Density:	[kg/dm ³]	ca. 0,9	
Specifications:			
Thickener:		lithium soap	
Type of base oil:		part synth oil	
Temperature range:	[°C]	-40 to 140	DIN 51825
Longtime limit temperature:	[°C]	80	
Base oil viscosity at 40°C:	[mm ² /s]	≥ ISO VG 68	DIN 51562 - 1
Worked penetration:	[0,1 mm]	265-295	DIN ISO 2137
Drop point:	[°C]	≥ 190	DIN ISO 2176
Water resistance:	[Range]	≤ 1-90	DIN 51807 - 1
Corrosion Emcor Test:	[Corr.Grad]	0/0	DIN 51802
1% NaCl:	[Corr.Grad]	≤ 1/1	
Copper corrosion after 24 h/120 °C:	[Corr.Grad]	≤ 1	DIN 51811
FE8 tests run Wear behaviour		Running time 500 hours, no failure	
536048 - 3000/10-RT	[mg]	vWk50 ≤ 35mg	DIN 51819
536048 - 75/80-RT	[mg]	vWk50 ≤ 35mg	DIN 51819
536050MP - 7,5/80-120	[mg]	vWk50 ≤ 35mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-130	[h]	F50 ≥ 200 h	DIN 51821-02
	[h]	no failure < 100h	
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	[mm/min]	800.000	350.000

*) not cylindrical roller thrust bearings and spherical roller thrust bearings

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Universal grease MULTI2

MULTI2 Universal grease for ball bearings of D ≤ 62 mm

Typical applications:

- Small electric motors
- Agricultural and construction machinery
- Household appliances

Suitable for

Low temperatures	+
High temperatures	o
Low friction,	
high speeds	o
High loads,	
low speeds	o
Vibrations	o
Support for seals	o
Relubrication facility	++


Rating

- ++ extremely suitable
- + highly suitable
- o suitable

Available containers:

- 20 g tube
- 250 g tube
- 400 g cartridge
- 1 kg can
- 5 kg bucket
- 10 kg bucket
- 25 kg hobbock
- 180 kg drum

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FAG Rolling Bearing Grease Arcanol MULTI2

Properties, applications: Grease for bearings up to ØD ≤ 62mm

Characteristics	Unit	Value	Test method
Marking:		KP2K-30	DIN 51825
Density:	[kg/dm ³]	ca. 0,9	
Specifications:			
Thickener:		lithium soap	
Type of base oil:		mineral oil	
Temperature range:	[°C]	-30 to 120	DIN 51825
Longtime limit temperature:	[°C]	75	
Base oil viscosity at 40°C:	[mm ² /s]	≥ ISO VG 68	DIN 51562 - 1
Worked penetration:	[0,1 mm]	265-295	DIN ISO 2137
Drop point:	[°C]	≥ 180	DIN ISO 2176
Water resistance:	[Range]	≤ 1-90	DIN 51807 - 1
Corrosion Emcor Test:	[Corr.Grad]	0/0	DIN 51802
1% NaCl:	[Corr.Grad]	≤ 1/1	
Copper corrosion after 24 h/120 °C:	[Corr.Grad]	≤ 2	DIN 51811
FE8 tests run Wear behaviour		Running time 500 hours, no failure	
536050MP - 7,5/80-80	[mg]	vWk50 ≤ 35mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-130	[h]	F50 ≥ 100 h	DIN 51821-02
	[h]	no failure < 80h	
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	[mm/min]	500.000	250.000

*) not cylindrical roller thrust bearings and spherical roller thrust bearings

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Universal grease MULTI3

MULTI3 Universal grease for ball bearings of D > 62 mm

Typical applications:

- Large electric motors
- Agricultural and construction machinery
- Fans

Suitable for

- | | |
|------------------------------|---|
| Low temperatures | + |
| High temperatures | o |
| Low friction,
high speeds | o |
| High loads,
low speeds | o |
| Vibrations | + |
| Support for seals | + |
| Relubrication facility | + |


Rating

- | | |
|---|-----------------|
| + | highly suitable |
| o | suitable |

Available containers:

- 250 g tube
- 400 g cartridge
- 1 kg can
- 5 kg bucket
- 10 kg bucket
- 25 kg hobbock
- 180 kg drum

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FAG Rolling Bearing Grease Arcanol MULTI3

Properties, applications: Standard grease for bearings with ØD > 62mm; standard grease SF2

Characteristics	Unit	Value	Test method
Marking:		KP3K-30	DIN 51825
Density:	[kg/dm ³]	ca. 0,9	
Specifications:			
Thickener:		lithium soap	
Type of base oil:		mineral oil	
Temperature range:	[°C]	-30 to 120	DIN 51825
Longtime limit temperature:	[°C]	75	
Base oil viscosity at 40°C:	[mm ² /s]	≥ ISO VG 68	DIN 51562 - 1
Worked penetration:	[0,1 mm]	220-260	DIN ISO 2137
Drop point:	[°C]	≥ 180	DIN ISO 2176
Water resistance:	[Range]	≤ 1-90	DIN 51807 - 1
Corrosion Emcor Test:	[Corr.Grad]	0/0	DIN 51802
1% NaCl:	[Corr.Grad]	≤ 1/1	
Copper corrosion after 24 h/120 °C:	[Corr.Grad]	≤ 2	DIN 51811
FE8 tests run Wear behaviour		Running time 500 hours, no failure	
536050MP - 7,5/80-80	[mg]	vWk50 ≤ 35mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-130	[h]	F50 ≥ 100 h	DIN 51821-02
	[h]	no failure < 80h	
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	[mm/min]	500.000	250.000

*) not cylindrical roller thrust bearings and spherical roller thrust bearings

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Special grease LOAD150

LOAD150
Special grease
for ball, roller and
needle roller bearings
as well as linear
guidance systems

Typical applications:

- Machine tools

Suitable for

- Low temperatures o
- High temperatures o
- Low friction, –
- high speeds –
- High loads, –
- low speeds ++
- Vibrations +
- Support for seals +
- Relubrication facility +


Rating

- ++ extremely suitable
- + highly suitable
- o suitable
- less suitable

Available containers:

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

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FAG Rolling Bearing Grease Arcanol LOAD150

Properties, applications: High performance grease for bearings with line contact

Characteristics	Unit	Value	Test method
Marking:		KP2N-20	DIN 51825
Density:	[kg/dm ³]	ca. 0,9	
Specifications:			
Thickener:		lithium complex	
Type of base oil:		mineral oil	
Temperature range:	[°C]	-20 to 140	DIN 51825
Longtime limit temperature:	[°C]	90	
Base oil viscosity at 40°C:	[mm ² /s]	≥ ISO VG 150	DIN 51562 - 1
Worked penetration:	[0,1 mm]	220-295	DIN ISO 2137
Drop point:	[°C]	≥ 240	DIN ISO 2176
Water resistance:	[Range]	≤ 1-90	DIN 51807 - 1
Corrosion Emcor Test:	[Corr.Grad]	0/0	DIN 51802
1% NaCl:	[Corr.Grad]	≤ 1	
Copper corrosion after 24 h/100 °C:	[Corr.Grad]	≤ 1	DIN 51811
FE8 tests run Wear behaviour		Running time 500 hours, no failure	
536048 - 750/30-RT	[mg]	vWk50 ≤ 20mg	DIN 51819
536048 - 75/80-RT	[mg]	vWk50 ≤ 50mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-140	[h]	F50 ≥ 100 h	DIN 51821-02
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	[mm/min]	500.000	200.000

*) not cylindrical roller thrust bearings and spherical roller thrust bearings

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Special grease LOAD220

LOAD220 Special grease for ball bearings and roller bearings

Typical applications:

- Rolling mill plant
- Rail vehicles

Suitable for

Low temperatures	0
High temperatures	0
Low friction,	
high speeds	–
High loads,	
low speeds	++
Vibrations	+
Support for seals	+
Relubrication facility	+


Rating

- ++ extremely suitable
- + highly suitable
- o suitable
- less suitable

Available containers:

- 1 kg can
- 10 kg bucket
- 25 kg hobbock
- 180 kg drum

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FAG Rolling Bearing Grease Arcanol LOAD220

Properties, applications: Bearing grease for high load and a wide speed range, vibration stability

Characteristics	Unit	Value	Test method
Marking:		KP2N-20	DIN 51825
Density:	[kg/dm ³]	ca. 0,9	
Specifications:			
Thickener:		mixed thickener	
Type of base oil:		mineral oil	
Temperature range:	[°C]	-20 to 140	DIN 51825
Longtime limit temperature:	[°C]	80	
Base oil viscosity at 40°C:	[mm ² /s]	ISO VG 220	DIN 51562 - 1
Worked penetration:	[0,1 mm]	265-320	DIN ISO 2137
Drop point:	[°C]	≥ 180	DIN ISO 2176
Water resistance:	[Range]	≤ 1-90	DIN 51807 - 1
Corrosion Emcor Test:	[Corr.Grad]	0/0	DIN 51802
1% NaCl:	[Corr.Grad]	---	
Copper corrosion after 24 h/100 °C:	[Corr.Grad]	≤ 1	DIN 51811
FE8 tests run Wear behaviour		Running time 500 hours, no failure	
536048 - 1500/10-RT	[mg]	vWk50 ≤ 35mg	DIN 51819
536048 - 75/80-RT	[mg]	vWk50 ≤ 35mg	DIN 51819
536050MP - 7,5/80-80	[mg]	vWk50 ≤ 35mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-140	[h]	F50 ≥ 200 h	DIN 51821-02
	[h]	no failure < 100h	
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	[mm/min]	500.000	300.000

*) not cylindrical roller thrust bearings and spherical roller thrust bearings

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Special grease LOAD400

LOAD400 Special grease for ball bearings and roller bearings

Typical applications:

- Mining machinery
- Construction machinery

Suitable for

Low temperatures	-
High temperatures	0
Low friction,	-
high speeds	-
High loads,	-
low speeds	++
Vibrations	+
Support for seals	+
Relubrication facility	+


Rating

- ++ extremely suitable
- + highly suitable
- o suitable
- less suitable

Available containers:

- 400 g cartridge
- 1 kg can
- 5 kg bucket
- 10 kg bucket
- 25 kg hobbock
- 50 kg hobbock
- 180 kg drum

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FAG Rolling Bearing Grease Arcanol LOAD400

Properties, applications: Bearing grease for high loaded large bearings; low speed and shocks

Characteristics	Unit	Value	Test method
Marking:		KP2N-20	DIN 51825
Density:	[kg/dm ³]	ca. 0,9	
Specifications:			
Thickener:		mixed thickener	
Type of base oil:		mineral oil	
Temperature range:	[°C]	-20 to 140	DIN 51825
Longtime limit temperature:	[°C]	80	
Base oil viscosity at 40°C:	[mm ² /s]	≥ 400	DIN 51562 - 1
Worked penetration:	[0,1 mm]	265-295	DIN ISO 2137
Drop point:	[°C]	≥ 165	DIN ISO 2176
Water resistance:	[Range]	≤ 1-90	DIN 51807 - 1
Corrosion Emcor Test:	[Corr.Grad]	0/0	DIN 51802
1% NaCl:	[Corr.Grad]	≤ 1/1	
Copper corrosion after 24 h/120 °C:	[Corr.Grad]	≤ 1	DIN 51811
FE8 tests run Wear behaviour		Running time 500 hours, no failure	
536048 - 75/80-RT	[mg]	vWk50 ≤ 35mg	DIN 51819
536050MP - 3000/10-RT	[mg]	vWk50 ≤ 35mg	DIN 51819
536050MP - 7,5/80-80	[mg]	vWk50 ≤ 35mg	DIN 51819
536050MP - 7,5/80-RT	[mg]	vWk50 ≤ 35mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-130	[h]	F50 ≥ 200 h	DIN 51821-02
	[h]	no failure < 100h	
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	[mm/min]	400.000	200.000

*) not cylindrical roller thrust bearings and spherical roller thrust bearings

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Special grease LOAD1000

LOAD1000 Special grease for large ball and roller bearings

Typical applications:

- Mining machinery
- Construction machinery

Suitable for

Low temperatures	0
High temperatures	0
Low friction,	
high speeds	--
High loads,	
low speeds	++
Vibrations	+
Support for seals	+
Relubrication facility	+


Rating

- ++ extremely suitable
- + highly suitable
- o suitable
- not suitable

Available containers:

- 5 kg bucket
- 25 kg hobbock
- 180 kg drum

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FAG Rolling Bearing Grease Arcanol LOAD1000

Properties, applications: Bearing grease for very high load, shocks, large bearings

Characteristics	Unit	Value	Test method
Marking:		KP2N-20	DIN 51825
Density:	[kg/dm ³]	ca. 0,9	
Specifications:			
Thickener:		mixed thickener	
Type of base oil:		mineral oil	
Temperature range:	[°C]	-20 to 140	DIN 51825
Longtime limit temperature:	[°C]	80	
Base oil viscosity at 40°C:	[mm ² /s]	ISO VG 1000	DIN 51562 - 1
Worked penetration:	[0,1 mm]	265-295	DIN ISO 2137
Drop point:	[°C]	≥ 170	DIN ISO 2176
Water resistance:	[Range]	≤ 1-90	DIN 51807 - 1
Corrosion Emcor Test:	[Corr.Grad]	0/0	DIN 51802
1% NaCl:	[Corr.Grad]	≤ 1/1	
Copper corrosion after 24 h/120 °C:	[Corr.Grad]	≤ 1	DIN 51811
FE8 tests run Wear behaviour		Running time 500 hours, no failure	
536048 - 75/80-120	[mg]	vWk50 ≤ 35mg	DIN 51819
536048 - 75/80-RT	[mg]	vWk50 ≤ 35mg	DIN 51819
536048 - 750/30-RT	[mg]	vWk50 ≤ 35mg	DIN 51819
536050MP - 7,5/80-80	[mg]	vWk50 ≤ 35mg	DIN 51819
536050MP - 75/80-RT	[mg]	vWk50 ≤ 35mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-140	[h]	F50 ≥ 150 h	DIN 51821-02
	[h]	no failure < 50h	
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	[mm/min]	300.000	200.000

*) not cylindrical roller thrust bearings and spherical roller thrust bearings

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Special grease TEMP90

TEMP90 Special grease for ball bearings and roller bearings

Typical applications:

- Couplings
- Electric motors
- Motor vehicles

Suitable for

Low temperatures	++
High temperatures	+
Low friction,	
high speeds	o
High loads,	
low speeds	o
Vibrations	o
Support for seals	o
Relubrication facility	o


Rating

- ++ extremely suitable
- + highly suitable
- o suitable

Available containers:

- 20 g tube
- 400 g cartridge
- 1 kg can
- 5 kg bucket
- 25 kg hobbock
- 180 kg drum

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FAG Rolling Bearing Grease Arcanol TEMP90

Properties, applications: Bearing grease for raised temperatures

Characteristics	Unit	Value	Test method
Marking:		KP2N-30	DIN 51825
Density:	[kg/dm ³]	ca.0,9	
Specifications:			
Thickener:		mixed thickener	
Type of base oil:		synth. oil	
Temperature range:	[°C]	-30 to 140	DIN 51825
Longtime limit temperature:	[°C]	90	
Base oil viscosity at 40°C:	[mm ² /s]	≥ ISO VG 100	DIN 51562 - 1
Worked penetration:	[0,1 mm]	265-295	DIN ISO 2137
Drop point:	[°C]	≥ 220	DIN ISO 2176
Water resistance:	[Range]	≤ 1-90	DIN 51807 - 1
Corrosion Emcor Test:	[Corr.Grad]	≤ 1/1	DIN 51802
1% NaCl:	[Corr.Grad]	---	
Copper corrosion after 24 h/120 °C:	[Corr.Grad]	≤ 1	DIN 51811
FE8 tests run Wear behaviour		Running time 500 hours, no failure	
536048 - 1500/10-RT	[mg]	vWk50 ≤ 35mg	DIN 51819
536048 - 75/80-120	[mg]	vWk50 ≤ 35mg	DIN 51819
536050MP - 7,5/80-120	[mg]	vWk50 ≤ 35mg	DIN 51819
536050MP - 7,5/80-80	[mg]	vWk50 ≤ 35mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-140	[h]	F50 ≥ 200 h	DIN 51821-02
	[h]	no failure < 100h	
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	[mm/min]	500.000	250.000

*) not cylindrical roller thrust bearings and spherical roller thrust bearings

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Special grease TEMP110

TEMP110 Special grease for ball bearings and roller bearings

Typical applications:

- Electrical equipment
- Motor vehicles

Suitable for

Low temperatures	++
High temperatures	++
Low friction, high speeds	+
High loads, low speeds	o
Vibrations	o
Support for seals	o
Relubrication facility	o


Rating

- ++ extremely suitable
- + highly suitable
- o suitable

Available containers:

- 400 g cartridge
- 1 kg can
- 50 kg hobcock

SCHAEFFLER GROUP
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FAG Rolling Bearing Grease Arcanol TEMP110

Properties, applications: Bearing grease for low and high temperatures

Characteristics	Unit	Value	Test method
Marking:		KPE2P-40	DIN 51825
Density:	[kg/dm ³]	ca. 1	
Specifications:			
Thickener:		lithium complex	
Type of base oil:		synth. oil	
Temperature range:	[°C]	-40 to 160	DIN 51825
Longtime limit temperature:	[°C]	110	
Base oil viscosity at 40°C:	[mm ² /s]	≥ ISO VG 68	DIN 51562 - 1
Worked penetration:	[0,1 mm]	250-295	DIN ISO 2137
Drop point:	[°C]	≥ 230	DIN ISO 2176
Water resistance:	[Range]	≤ 1-90	DIN 51807 - 1
Corrosion Emcor Test:	[Corr.Grad]	0/0	DIN 51802
1% NaCl:	[Corr.Grad]	≤ 1/1	
Copper corrosion after 24 h/120 °C:	[Corr.Grad]	≤ 1	DIN 51811
FE8 tests run Wear behaviour		Running time 500 hours, no failure	
536048 - 1500/10-RT	[mg]	vWk50 ≤ 35mg	DIN 51819
536048 - 75/80-120	[mg]	vWk50 ≤ 35mg	DIN 51819
536050MP - 7,5 / 80-120	[mg]	vWk50 ≤ 35mg	DIN 51819
536050MP - 7,5/ 80 -80	[mg]	vWk50 ≤ 35mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-160	[h]	F50 ≥ 200 h	DIN 51821-02
	[h]	no failure < 100h	
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	[mm/min]	500.000	250.000

*) not cylindrical roller thrust bearings and spherical roller thrust bearings

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Edition: 15.01.2008



Special grease TEMP120

TEMP120 Special grease for ball bearings and roller bearings

Typical applications:

- Continuous casting plant

Suitable for

Low temperatures	+
High temperatures	++
Low friction,	
high speeds	-
High loads,	
low speeds	++
Vibrations	o
Support for seals	o
Relubrication facility	o


Rating

- ++ extremely suitable
- + highly suitable
- o suitable
- less suitable

Available containers:

- 1 kg can
- 5 kg bucket
- 25 kg hobbock

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FAG Rolling Bearing Grease Arcanol TEMP120

Properties, applications: Bearing grease for high temperatures, high loads

Characteristics	Unit	Value	Test method
Marking:		KPHC2R-30	DIN 51825
Density:	[kg/dm ³]	ca. 0,9	
Specifications:			
Thickener:		polyurea	
Type of base oil:		synth. oil	
Temperature range:	[°C]	-30 to 180	DIN 51825
Longtime limit temperature:	[°C]	120	
Base oil viscosity at 40°C:	[mm ² /s]	ISO VG 460	DIN 51562 - 1
Worked penetration:	[0,1 mm]	265-295	DIN ISO 2137
Drop point:	[°C]	≥ 230	DIN ISO 2176
Water resistance:	[Range]	≤ 1-90	DIN 51807 - 1
Corrosion Emcor Test:	[Corr.Grad]	0/0	DIN 51802
1% NaCl:	[Corr.Grad]	≤ 1/1	
Copper corrosion after 24 h/120 °C:	[Corr.Grad]	≤ 1	DIN 51811
FE8 tests run Wear behaviour		Running time 500 hours, no failure	
536048 - 75/80-RT	[mg]	vWk50 ≤ 30mg	DIN 51819
536050MP - 7,5/80-160	[mg]	vWk50 ≤ 30mg	DIN 51819
536050MP - 7,5/80-80	[mg]	vWk50 ≤ 30mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-180	[h]	F50 ≥ 100 h	DIN 51821-02
	[h]	no failure < 50h	
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	[mm/min]	300.000	150.000

*) not cylindrical roller thrust bearings and spherical roller thrust bearings

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Special grease TEMP200

TEMP200 Special grease for ball bearings and roller bearings

Typical applications:

- Track rollers in automatic baking equipment
- Piston pins in compressors
- Kiln trucks
- Chemical plant

Suitable for

Low temperatures	++
High temperatures	++
Low friction, high speeds	--
High loads, low speeds	+
Vibrations	-
Support for seals	o
Relubrication facility	o


Rating

- ++ extremely suitable
- + highly suitable
- o suitable
- less suitable
- not suitable

Available containers:

- 70 g tube
- 1 kg can

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FAG Rolling Bearing Grease Arcanol TEMP200

Properties, applications: High temperature grease for high loads

Characteristics	Unit	Value	Test method
Marking:		KFK2U-30	DIN 51825
Density:	[kg/dm ³]	ca. 2,0	
Specifications:			
Thickener:		PTFE	
Type of base oil:		fluorinated polyether oil	
Temperature range:	[°C]	-30 to 250	DIN 51825
Longtime limit temperature:	[°C]	200	
Base oil viscosity at 40°C:	[mm ² /s]	ISO VG 220 - 460	DIN 51562 - 1
Worked penetration:	[0,1 mm]	265-295	DIN ISO 2137
Drop point:	[°C]	not measurable	DIN ISO 2176
Water resistance:	[Range]	---	DIN 51807 - 1
Corrosion Emcor Test:	[Corr.Grad]	≤ 1	DIN 51802
1% NaCl:	[Corr.Grad]	---	
Copper corrosion after 24 h/150 °C:	[Corr.Grad]	≤ 1	DIN 51811
FE8 tests run Wear behaviour 536050 - 7,5/80-180	[mg]	Running time 500 hours, no failure vWk50 ≤ 45mg	DIN 51819
FE9 tests run (grease service lifetime) A/1500/3000-220	[h]	F50 ≥ 250 h	DIN 51821-02
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	[mm/min]	300.000	100.000

*) not cylindrical roller thrust bearings and spherical roller thrust bearings

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Edition: 15.01.2008



Special grease SPEED2,6

SPEED2,6 Special grease for ball bearings

Typical applications:

- Machine tools
- Instruments

Suitable for

Low temperatures	++
High temperatures	0
Low friction,	
high speeds	++
High loads,	
low speeds	--
Vibrations	-
Support for seals	0
Relubrication facility	+


Rating

- ++ extremely suitable
- + highly suitable
- 0 suitable
- less suitable
- not suitable

Available containers:

- 250 g tube
- 1 kg can
- 25 kg hobbock

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FAG Rolling Bearing Grease Arcanol SPEED2,6

Properties, applications: Grease for high speed bearings

Characteristics	Unit	Value	Test method
Marking:		KE3K-30	DIN 51825
Density:	[kg/dm ³]	ca. 0,9	
Specifications:			
Thickener:		polyurea	
Type of base oil:		synth. oil	
Temperature range:	[°C]	-30 to 120	DIN 51825
Longtime limit temperature:	[°C]	80	
Base oil viscosity at 40°C:	[mm ² /s]	≥ ISO VG 22	DIN 51562 - 1
Worked penetration:	[0,1 mm]	220-295	DIN ISO 2137
Drop point:	[°C]	≥ 220	DIN ISO 2176
Water resistance:	[Range]	≤ 1-90	DIN 51807 - 1
Corrosion Emcor Test:	[Corr.Grad]	≤ 1	DIN 51802
1% NaCl:	[Corr.Grad]	---	
Copper corrosion after 24 h/100 °C:	[Corr.Grad]	≤ 1	DIN 51811
FE8 tests run Wear behaviour		Running time 500 hours, no failure	
536050MP - 7,5/80-RT	[mg]	vWk50 ≤ 35mg	DIN 51819
536050TVP - 6000/5-90	[mg]	vWk50 ≤ 35mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-120	[h]	F50 ≥ 150 h	DIN 51821-02
	[h]	no failure < 100h	
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	[mm/min]	2.000.000	200.000

*) not cylindrical roller thrust bearings and spherical roller thrust bearings

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Special grease VIB3

VIB3 Special grease for ball bearings and roller bearings

Typical applications:

- Blade adjusters in wind turbine rotors
- Packaging machinery

Suitable for

Low temperatures	+
High temperatures	+
Low friction, high speeds	-
High loads, low speeds	+
Vibrations	++
Support for seals	0
Relubrication facility	-


Rating

- ++ extremely suitable
- + highly suitable
- o suitable
- less suitable

Available containers:

- 400 g cartridge
- 1 kg can
- 5 kg bucket
- 25 kg hobbock
- 50 kg hobbock

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FAG Rolling Bearing Grease Arcanol VIB3

Properties, applications: high temperature and high load, oscillation

Characteristics	Unit	Value	Test method
Marking:			DIN 51825
Density:	[kg/dm ³]		
Specifications:			
Thickener:		lithium complex	
Type of base oil:		mineral oil	
Temperature range:	[°C]	-30 to 150	DIN 51825
Longtime limit temperature:	[°C]	90	
Base oil viscosity at 40°C:	[mm ² /s]	≥ ISO VG 150	DIN 51562 - 1
Worked penetration:	[0,1 mm]	220-250	DIN ISO 2137
Drop point:	[°C]	≥ 250	DIN ISO 2176
Water resistance:	[Range]	---	DIN 51807 - 1
Corrosion Emcor Test:	[Corr.Grad]	0/0	DIN 51802
1% NaCl:	[Corr.Grad]	---	
Copper corrosion after 24 h/150 °C:	[Corr.Grad]	≤ 1	DIN 51811
FE8 tests run Wear behaviour		Running time 500 hours, no failure	
536050 - 3000/10-80	[mg]	vWk50 ≤ 35mg	DIN 51819
536050 - 7,5/80-RT	[mg]	vWk50 ≤ 35mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-150	[h]	F50 ≥ 100 h	DIN 51821-02
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	[mm/min]	350.000	200.000

*) not cylindrical roller thrust bearings and spherical roller thrust bearings

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Special grease BIO2

BIO2 Special grease for ball bearings and roller bearings

Typical applications:

- Environmentally harmful applications

Suitable for

- | | |
|------------------------|---|
| Low temperatures | + |
| High temperatures | 0 |
| Low friction, | |
| high speeds | 0 |
| High loads, | |
| low speeds | 0 |
| Vibrations | 0 |
| Support for seals | 0 |
| Relubrication facility | + |


Rating

- | | |
|---|-----------------|
| + | highly suitable |
| o | suitable |

Available containers:

- 400 g cartridge
- 1 kg can
- 10 kg bucket
- 25 kg hobbock
- 180 kg drum

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FAG Rolling Bearing Grease Arcanol BIO2

Properties, applications: Bearing grease - rapidly biodegradable

Characteristics	Unit	Value	Test method
Marking:		KPE2K-30	DIN 51825
Density:	[kg/dm³]	ca. 0,9	
Specifications:			
Thickener:		mixed thickener	
Type of base oil:		synth. oil	
Temperature range:	[°C]	-30 to 120	DIN 51825
Longtime limit temperature:	[°C]	80	
Base oil viscosity at 40°C:	[mm²/s]	≥ ISO VG 68	DIN 51562 - 1
Worked penetration:	[0,1 mm]	265-295	DIN ISO 2137
Drop point:	[°C]	≥ 180	DIN ISO 2176
Water resistance:	[Range]	0	DIN 51807 - 1
Corrosion Emcor Test:	[Corr. Grad]	0/0	DIN 51802
1% NaCl:	[Corr. Grad]	---	
Copper corrosion after 24 h/ °C:	[Corr. Grad]	---	DIN 51811
FE8 tests run Wear behaviour		Running time 500 hours, no failure	
536050TVP - 7,5/80-RT	[mg]	vWk50 ≤ 35mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-120	[h]	F50 ≥ 100 h	DIN 51821-02
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	[mm/min]	300.000	200.000

*) not cylindrical roller thrust bearings and spherical roller thrust bearings

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Special grease FOOD2

FOOD2 Special grease for ball bearings and roller bearings

Typical applications:

- Applications with food contact

Suitable for

Low temperatures	+
High temperatures	-
Low friction, high speeds	0
High loads, low speeds	0
Vibrations	0
Support for seals	0
Relubrication facility	++


Rating

- ++ extremely suitable
- + highly suitable
- o suitable
- less suitable

Available containers:

- 400 g cartridge
- 1 kg can
- 10 kg bucket
- 25 kg hobbock
- 180 kg drum

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FAG Rolling Bearing Grease Arcanol FOOD2

Properties, applications: Bearing grease for food-applications according to USDA H1

Characteristics	Unit	Value	Test method
Marking:		KPF2K-30	DIN 51825
Density:	[kg/dm ³]	ca. 0,9	
Specifications:			
Thickener:		aluminium complex	
Type of base oil:		white oil	
Temperature range:	[°C]	-30 to 120	DIN 51825
Longtime limit temperature:	[°C]	70	
Base oil viscosity at 40°C:	[mm ² /s]	≥ ISO VG 100	DIN 51562 - 1
Worked penetration:	[0,1 mm]	265-340	DIN ISO 2137
Drop point:	[°C]	≥ 230	DIN ISO 2176
Water resistance:	[Range]	≤ 1-90	DIN 51807 - 1
Corrosion Emcor Test:	[Corr.Grad]	≤ 1	DIN 51802
1% NaCl:	[Corr.Grad]	---	
Copper corrosion after 24 h/100 °C:	[Corr.Grad]	≤ 1	DIN 51811
FE8 tests run Wear behaviour		Running time 500 hours, no failure	
536050TVP - 7,5/80-80	[mg]	vWk50 ≤ 35mg	DIN 51819
536050TVP - 7,5/80-RT	[mg]	vWk50 ≤ 35mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-120	[h]	F50 ≥ 200 h	DIN 51821-02
	[h]	no failure < 100h	
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	[mm/min]	500.000	200.000

*) not cylindrical roller thrust bearings and spherical roller thrust bearings

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Container sizes · Ordering examples

Arcanol grease	20 g tube	70 g tube	250 g tube	400 g cartridge	1 kg can	5 kg bucket	10 kg bucket	25 kg hobbock	50 kg hobbock	180 kg drum
MULTITOP	–	–	•	•	•	•	•	•	–	•
MULTI2	•	–	•	•	•	•	•	•	–	•
MULTI3	–	–	•	•	•	•	•	•	–	•
LOAD150	–	–	–	•	•	–	•	–	–	–
LOAD220	–	–	–	–	•	–	•	•	–	•
LOAD400	–	–	–	•	•	•	•	•	•	•
LOAD1000	–	–	–	–	–	•	–	•	–	•
TEMP90	•	–	–	•	•	•	–	•	–	•
TEMP110	–	–	–	•	•	–	–	–	•	–
TEMP120	–	–	–	–	•	•	–	•	–	–
TEMP200	–	•	–	–	•	–	–	–	–	–
SPEED2,6	–	–	•	–	•	–	–	•	–	–
VIB3	–	–	–	•	•	•	–	•	•	–
BIO2	–	–	–	•	•	–	•	•	–	•
FOOD2	–	–	–	•	•	–	•	•	–	•

Ordering examples:

Ordering designation	Description
ARCANOL-MULTITOP-5KG	FAG rolling bearing grease Arcanol MULTITOP in 5 kg bucket
ARCANOL-MULTI2-20G	FAG rolling bearing grease Arcanol MULTI2 in 20 g tube
ARCANOL-MULTI3-25KG	FAG rolling bearing grease Arcanol MULTI3 in 25 kg hobbock
ARCANOL-LOAD150-10KG	FAG rolling bearing grease Arcanol LOAD150 in 10 kg bucket
ARCANOL-LOAD220-180KG	FAG rolling bearing grease Arcanol LOAD220 in 180 kg drum
ARCANOL-LOAD400-400G	FAG rolling bearing grease Arcanol LOAD400 in 400 g cartridge
ARCANOL-LOAD1000-5KG	FAG rolling bearing grease Arcanol LOAD1000 in 5 kg bucket
ARCANOL-TEMP90-1KG	FAG rolling bearing grease Arcanol TEMP90 in 1 kg can
ARCANOL-TEMP110-400G	FAG rolling bearing grease Arcanol TEMP110 in 400 g cartridge
ARCANOL-TEMP120-25KG	FAG rolling bearing grease Arcanol TEMP120 in 25 kg hobbock
ARCANOL-TEMP200-70G	FAG rolling bearing grease Arcanol TEMP200 in 70 g tube
ARCANOL-SPEED2,6-250G	FAG rolling bearing grease Arcanol SPEED2,6 in 250 g tube
ARCANOL-VIB3-25KG	FAG rolling bearing grease Arcanol VIB3 in 25 kg hobbock
ARCANOL-BIO2-1KG	FAG rolling bearing grease Arcanol BIO2 in 1 kg can
ARCANOL-FOOD2-10KG	FAG rolling bearing grease Arcanol FOOD2 in 10 kg bucket

Relubrication equipment

FAG grease gun

In difficult operating conditions or aggressive environments, rolling bearings must be frequently relubricated via lubrication nipples. With the FAG grease gun and the matching reinforced hose, this operation can be carried out easily, cleanly and quickly by hand. The parts correspond to DIN 1283. The gun can either be filled with bulk grease or fitted with a cartridge to DIN 1284.

Ordering designation (gun):
ARCA-GREASE-GUN

Ordering designation
(reinforced hose with hydraulic grip coupling for taper type lubrication nipple to DIN 71412):
ARCA-GREASE-GUN.HOSE

Ordering designation
(reinforced hose with connector for cylindrical nipples to DIN 3404, optionally available):
ARCA-GREASE-GUN.HOOK-ON-HOSE



ARCA-GREASE-GUN with
ARCA-GREASE-GUN.HOSE and
ARCA-GREASE-GUN.HOOK-ON-HOSE

Automatic FAG lubricators Motion Guard

When automatic lubricators are used for controlled relubrication, a sufficient quantity of fresh grease is continuously supplied to the contact points of the rolling bearing. This extends the lubrication and maintenance intervals and shortens the downtime of the plant.

We offer three lubricator ranges:

- Motion Guard **COMPACT**
Single point lubrication system, comprising housing, filled with 120 cm³ grease and activation screw;
ordering example:
ARCALUB-TEMP90-1M
- Motion Guard **CHAMPION**
Single point lubrication system, comprising LC unit of 120 cm³ or 250 cm³ volume with battery set, drive unit, adapter;
ordering example:
ARCALUB.LC120-MULTITOP-KIT
- Motion Guard **CONCEPT6**
Single point lubrication system, expandable to multiple point lubrication system by means of distributor, cartridge of 250 cm³ or 500 cm³ volume, with battery set, drive unit, retainer;
ordering example:
ARCALUB-C6-250-KIT

FAG metering devices

The metering devices can be used to provide grease to rolling bearings in metered quantities in the range 10 cm³ to 133 cm³. Larger metering ranges can also be achieved by operating the devices several times.

By means of a pneumatically driven, double direction piston pump, the medium is conveyed directly from the grease container (25 kg or 180 kg) via the metering valve to the application point.

The grease metering device comprises

- a cover
- a grease follower plate
- a metering valve
- a hose connecting the pump and valve
- a 2,5 m hose
- a grease pistol

Ordering designations:

ARCA-PUMP-25
ARCA-PUMP-180



ARCA-PUMP-180

Relubrication equipment

Suitability of FAG relubrication equipment for Arcanol greases

Grease Arcanol	Grease gun	Automatic lubricators		Metering devices		
		Motion Guard COMPACT	Motion Guard CHAMPION	Motion Guard CONCEPT6	ARCA-PUMP-25	ARCA-PUMP-180
MULTITOP	+	+ ¹⁾	+	+	+	+
MULTI2	+	+ ¹⁾	+	+	-	+
MULTI3	+	-	+	-	+	+
LOAD150	+	-	+	+	-	+
LOAD220	+	-	+	+	-	+
LOAD400	+	+	+	+	-	+
LOAD1000	+	+	+	+	+	+
TEMP90	+	+	+	+	+	+
TEMP110	+	-	+	+	-	-
TEMP120	+	+	+	+	+	-
TEMP200	+	+	+	+	-	-
SPEED2,6	+	-	+	+	+	-
VIB3	+	-	+	-	+	-
BIO2	+	-	+	+	-	-
FOOD2	+	+	+	+	-	-

¹⁾ Dispensing period 1, 3 and 6 months



Automatic FAG lubricators COMPACT (left), CHAMPION (centre) and CONCEPT6 (right)

Comparison of ordering designations

Ordering designation for Europe	Ordering designation for countries outside Europe
ARCANOL-BIO2-...	ARCA.GREASE.BIO2...
ARCANOL-FOOD2-...	ARCA.GREASE.FOOD2...
ARCANOL-LOAD150-...	ARCA.GREASE.LOAD150...
ARCANOL-LOAD220-...	ARCA.GREASE.LOAD220...
ARCANOL-LOAD400-...	ARCA.GREASE.LOAD400...
ARCANOL-LOAD1000-...	ARCA.GREASE.LOAD1000...
ARCANOL-MULTITOP-...	ARCA.GREASE.MULTITOP...
ARCANOL-MULTI2-...	ARCA.GREASE.MULTI2...
ARCANOL-MULTI3-...	ARCA.GREASE.MULTI3...
ARCANOL-SPEED2,6-...	ARCA.GREASE.SPEED2,6...
ARCANOL-TEMP90-...	ARCA.GREASE.TEMP90...
ARCANOL-TEMP110-...	ARCA.GREASE.TEMP110...
ARCANOL-TEMP120-...	ARCA.GREASE.TEMP120...
ARCANOL-TEMP200-...	ARCA.GREASE.TEMP200...
ARCANOL-VIB3-...	ARCA.GREASE.VIB3...
ARCA-GREASE-GUN	ARCA.GREASE-GUN
ARCA-GREASE-GUN.HOSE	ARCA.GREASE-GUN.HOSE
ARCA-PUMP-25 (~180)	ARCA.PUMP.25 (~180)
ARCALUB-...-1M (~3M, ~6M, ~12M)	ARCA.LUB. ...1M (~3M, ~6M, ~12M)
ARCALUB.LC120-...-KIT (~LC250-...-KIT)	ARCA.LUB.LC120.SET (~LC250.SET)
ARCALUB-C6-250-KIT (~500-KIT)	ARCA.LUB.C6-250.KIT (~500.KIT)

Notes

Notes

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