

FAG



Arcanol Rolling Bearing Greases

For reliable, durable and cost-effective bearing arrangements

Technical Product Information

SCHAEFFLER GROUP
INDUSTRIAL

TULI
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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

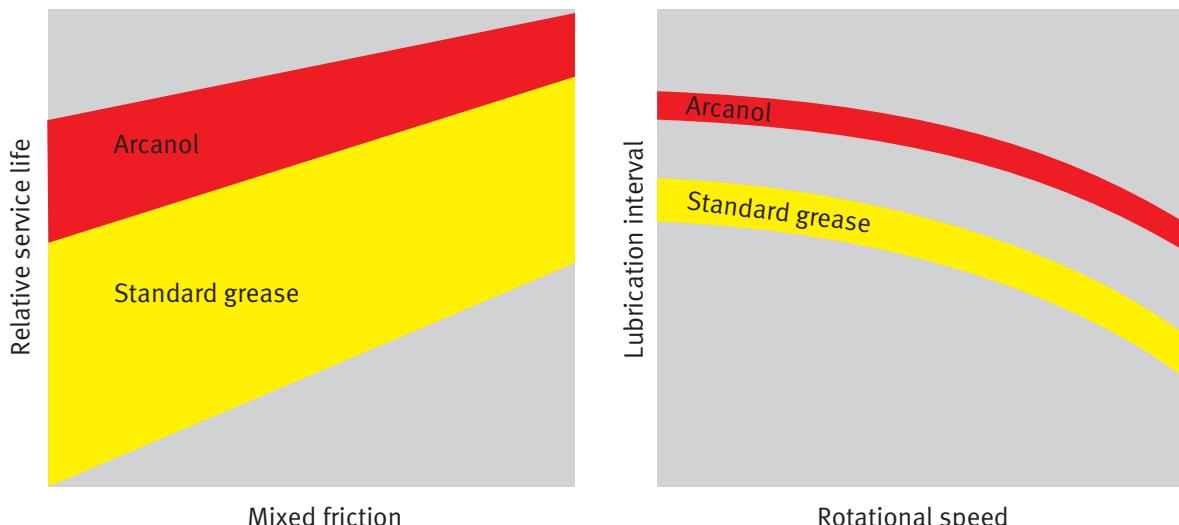
Special rolling bearing greases such as Arcanol offer the best conditions for achieving reliable, durable and cost-effective bearing arrangements. For Arcanol gives you certainty, since Schaeffler KG carries out selection tests, provides quality assurance and gives practice-based lubrication recommendations. 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 | Universal grease for ball bearings ØD ≤ 62 mm | Universal grease for ball bearings ØD > 62 mm | Special grease for ball, roller and needle roller bearings, linear guidance systems | Special grease for ball and roller bearings | Special grease for ball and roller bearings | Special grease for ball and roller bearings |
| | in rolling mills, construction machinery, automotive engineering, spinning and grinding spindles | in small electric motors, agricultural and construction machinery, household appliances | in large electric motors, agricultural and construction machinery, fans | in machine tools | in rolling mill plant, rail vehicles | in mining machinery, construction machinery, wind turbines | in mining machinery, construction machinery, preferably under shock loads and in large bearings |
| | at increased speeds, high loads, low and high temperatures | | | at high loads, wide speed range, swivel motion | at high loads, wide speed range, high humidity | at very high loads, moderate temperatures, moderate speed | at very high loads, moderate temperatures, low speed |
| Low temperatures | ++ | + | + | 0 | 0 | - | 0 |
| High temperatures | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Low friction, high speeds | + | 0 | 0 | - | - | - | -- |
| High loads, low speeds | + | 0 | 0 | ++ | ++ | ++ | ++ |
| Vibrations | + | 0 | + | + | + | + | + |
| Support for seals | 0 | 0 | + | + | + | + | + |
| Relubrication facility | ++ | ++ | + | + | + | + | + |
| ISO VG = ISO viscosity group | ++ extremely suitable + highly suitable | | | 0 suitable | | - less suitable -- not suitable | |

| 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
0 suitable



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: 1% NaCl: | [Corr.Grad] | 0/0 | DIN 51802 |
| Copper corrosion after 24 h/120 °C: | [Corr.Grad] | ≤ 1/1 | |
| | | ≤ 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

This copy is not taken into account by the updating service.
The data are based on actual knowledge at the time of print and refer to the respective test method. Guaranteed properties or warranties cannot be taken over.

Edition: 15.01.2008

Available containers:

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



Universal grease MULTI2

MULTI2 Universal grease for ball bearings of $D \leq 62 \text{ mm}$

Typical applications:

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

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

- ++ extremely suitable
+ highly suitable
0 suitable

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FAG Rolling Bearing Grease Arcanol MULTI2

Properties, applications: Grease for bearings up to $\text{OD} \leq 62\text{mm}$

| Characteristics | Unit | Value | Test method |
|--|-----------------------|---|----------------------------|
| Marking: | | KP2K-30 | |
| 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] | \geq ISO VG 68 | DIN 51562 - 1 |
| Worked penetration: | [0,1 mm] | 265-295 | DIN ISO 2137 |
| Drop point: | [°C] | \geq 180 | DIN ISO 2176 |
| Water resistance: | [Range] | \leq 1-90 | DIN 51807 - 1 |
| Corrosion Emcor Test: 1% NaCl: | [Corr. Grad] | 0/0 | DIN 51802 |
| Copper corrosion after 24 h/120 °C: | [Corr. Grad] | \leq 1/1 | |
| | | \leq 2 | DIN 51811 |
| FE8 tests run Wear behaviour 536050MP - 7,5/80-80 | | Running time 600 hours, no failure vWk50 \leq 35mg | DIN 51819 |
| FE9 tests run (grease service lifetime) A/1500/6000-130 | [h] [h] | F50 \geq 100 h no failure < 80h | DIN 51821-02 |
| 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

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



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

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FAG Rolling Bearing Grease Arcanol MULTI3

Properties, applications: Standard grease for bearings with $\varnothing D > 62\text{mm}$; 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] | \geq ISO VG 68 | DIN 51562 - 1 |
| Worked penetration: | [0,1 mm] | 220-260 | DIN ISO 2137 |
| Drop point: | [°C] | \geq 180 | DIN ISO 2176 |
| Water resistance: | [Range] | \leq 1-00 | DIN 51807 - 1 |
| Corrosion Emcor Test: 1% NaCl: | [Corr. Grad] | 0/0 | DIN 51802 |
| Copper corrosion after 24 h/120 °C: | [Corr. Grad] | \leq 1/1 | |
| | | \leq 2 | DIN 51811 |
| FE8 tests run Wear behaviour 536050MP - 7,5/80-80 | | Running time 500 hours, no failure vWk50 \leq 35mg | DIN 51819 |
| FE9 tests run (grease service lifetime) A/1500/6000-130 | [h] | F50 \geq 100 h no failure < 80h | DIN 51821-02 |
| 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

Available containers:

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



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 | 0 |
| High temperatures | 0 |
| Low friction, high speeds | - |
| High loads, low speeds | ++ |
| Vibrations | + |
| Support for seals | + |
| Relubrication facility | + |
| Rating | |
| ++ extremely suitable | |
| + highly suitable | |
| 0 suitable | |
| - less suitable | |



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: 1% NaCl: | [Corr. Grad] | 0/0 | DIN 51802 |
| Copper corrosion after 24 h/100 °C: | [Corr. Grad] | ≤ 1 | DIN 51811 |
| FE8 tests run Wear behaviour 536048 - 750/30-RT | | Running time 600 hours, no failure | |
| 536048 - 75/80-RT | [mg] | vWk50 ≤ 20mg | DIN 51819 |
| FE9 tests run (grease service lifetime) A/1500/6000-140 | [mg] | vWk50 ≤ 50mg | DIN 51819 |
| 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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Edition: 15.01.2008

Available containers:

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



Special grease LOAD220

LOAD220 Special grease for ball bearings and roller bearings

Typical applications:

- Rolling mill plant
- Rail vehicles

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 | |

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|--|-----------------------|---|-------------------------|-----------------|------|-------|-------------|----------|--|---------|-----------|----------|-----------------------|---------|--|-----------------|--|--|--|------------|--|-----------------|--|-------------------|--|-------------|--|--------------------|------|------------|-----------|-----------------------------|------|----|--|-----------------------------|----------------------|------------|---------------|---------------------|----------|---------|--------------|-------------|------|-------|--------------|-------------------|---------|--------|---------------|-----------------------|--------------|-----|-----------|----------|--------------|-----|--|-------------------------------------|--------------|-----|-----------|---|--|--|--|---------------------|------|--------------|-----------|-------------------|------|--------------|-----------|----------------------|------|--------------|-----------|--|--|--|--|--------------|--|---|-------------------------|---------------------------|--|---------|---------|
| FAG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FAG Rolling Bearing Grease Arcanol LOAD220 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Properties, applications: Bearing grease for high load and a wide speed range, vibration stability | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Characteristics</th><th>Unit</th><th>Value</th><th>Test method</th></tr> </thead> <tbody> <tr> <td>Marking:</td><td></td><td>KP2N-20</td><td>DIN 51825</td></tr> <tr> <td>Density:</td><td>[kg/dm³]</td><td>ca. 0,9</td><td></td></tr> <tr> <td>Specifications:</td><td></td><td></td><td></td></tr> <tr> <td>Thickener:</td><td></td><td>mixed thickener</td><td></td></tr> <tr> <td>Type of base oil:</td><td></td><td>mineral oil</td><td></td></tr> <tr> <td>Temperature range:</td><td>[°C]</td><td>-20 to 140</td><td>DIN 51825</td></tr> <tr> <td>Longtime limit temperature:</td><td>[°C]</td><td>80</td><td></td></tr> <tr> <td>Base oil viscosity at 40°C:</td><td>[mm²/s]</td><td>ISO VG 220</td><td>DIN 51562 - 1</td></tr> <tr> <td>Worked penetration:</td><td>[0,1 mm]</td><td>265-320</td><td>DIN ISO 2137</td></tr> <tr> <td>Drop point:</td><td>[°C]</td><td>≥ 180</td><td>DIN ISO 2176</td></tr> <tr> <td>Water resistance:</td><td>[Range]</td><td>≤ 1-90</td><td>DIN 51807 - 1</td></tr> <tr> <td>Corrosion Emcor Test:</td><td>[Corr. Grad]</td><td>0/0</td><td>DIN 51802</td></tr> <tr> <td>1% NaCl:</td><td>[Corr. Grad]</td><td>---</td><td></td></tr> <tr> <td>Copper corrosion after 24 h/100 °C:</td><td>[Corr. Grad]</td><td>≤ 1</td><td>DIN 51811</td></tr> <tr> <td colspan="4">FE8 tests run Wear behaviour Running time 500 hours, no failure</td></tr> <tr> <td>536048 - 1500/10-RT</td><td>[mg]</td><td>vWk50 ≤ 35mg</td><td>DIN 51819</td></tr> <tr> <td>536048 - 75/80-RT</td><td>[mg]</td><td>vWk50 ≤ 35mg</td><td>DIN 51819</td></tr> <tr> <td>536050MP - 7,5/80-80</td><td>[mg]</td><td>vWk50 ≤ 35mg</td><td>DIN 51819</td></tr> <tr> <td colspan="4">FE9 tests run (grease service lifetime) A/1500/6000-140 [h] F50 ≥ 200 h DIN 51821-02 [h] no failure < 100h</td></tr> <tr> <td colspan="2">Speed range:</td><td>Ball bearings and cylindrical roller bearings</td><td>Other roller bearings*)</td></tr> <tr> <td colspan="2">Speed limit n*dm [mm/min]</td><td>500.000</td><td>300.000</td></tr> </tbody> </table> | | | | 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: | | Ball bearings and cylindrical roller bearings | Other roller bearings*) | Speed limit n*dm [mm/min] | | 500.000 | 300.000 |
| 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: | | 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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| Edition: 15.01.2008 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Available containers:

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



Special grease LOAD400

LOAD400 Special grease for ball bearings and roller bearings

Typical applications:

- Mining machinery
- Construction machinery

Suitable for

| | |
|------------------------------|----|
| Low temperatures | - |
| 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 | |

SCHAFFLER GROUP
INDUSTRIAL

FAG

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: 1% NaCl: | [Corr. Grad] | 0/0 | DIN 51802 |
| Copper corrosion after 24 h/120 °C: | [Corr. Grad] | ≤ 1/1 | |
| FE8 tests run Wear behaviour | | Running time 600 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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Edition: 15.01.2008

Available containers:

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



Special grease LOAD1000

LOAD1000 Special grease for large ball and roller bearings

Typical applications:

- Mining machinery
- Construction machinery

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
- not suitable

| SCHAFFLER GROUP INDUSTRIAL | | FAG | | | |
|---|-----------------------|---|-------------------------|--|--|
| 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] | ≤ 1-00 | 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 | | | | | |
| 536048 - 75/80-120 | [mg] | Running time 500 hours, no failure | | | |
| 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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Edition: 15.01.2008

Available containers:

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



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 | 0 |
| High loads, low speeds | 0 |
| Vibrations | 0 |
| Support for seals | 0 |
| Relubrication facility | 0 |

Rating

- ++ extremely suitable
+ highly suitable
o suitable

| SCHAFFLER GROUP INDUSTRIAL | | | |
|--|-----------------------|--|----------------------------|
| 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: 1% NaCl: | [Corr.Grad] | ≤ 1/1 | DIN 51802 |
| Copper corrosion after 24 h/120 °C: | [Corr.Grad] | --- | |
| | | ≤ 1 | DIN 51811 |
| FE8 tests run Wear behaviour | | Running time 600 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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Edition: 15.01.2008

Available containers:

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



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




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

Available containers:

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



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 | 0 |
| Support for seals | 0 |
| Relubrication facility | 0 |

Rating

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

Available containers:

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

SCHAFFLER GROUP
INDUSTRIAL

FAG

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: 1% NaCl: | [Corr. Grad] | 0/0 | DIN 51802 |
| Copper corrosion after 24 h/120 °C: | [Corr. Grad] | ≤ 1/1 | |
| | | ≤ 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 | 0 |
| Relubrication facility | 0 |

Rating

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

SCHAFFLER GROUP
INDUSTRIAL

FAG

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 | | Running time 500 hours, no failure [mg] vWk50 ≤ 45mg | DIN 51819 |
| FE9 tests run (grease service lifetime) A/1500/3000-220 | [h] | F50 ≥ 250 h | DIN 51821-02 |
| Speed range: | | Ball bearings and cylindrical roller bearings | Other roller bearings*) |
| Speed limit n*dm | | 300.000 | 100.000 |

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

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Edition: 15.01.2008

Available containers:

- 70 g tube
- 1 kg can



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

SCHAFFLER GROUP
INDUSTRIAL

FAG

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: 1% NaCl: | [Corr. Grad] | ≤ 1 | DIN 51802 |
| Copper corrosion after 24 h/100 °C: | [Corr. Grad] | ≤ 1 | DIN 51811 |
| FE8 tests run Wear behaviour | | Running time 600 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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Edition: 15.01.2008

Available containers:

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



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 | o |
| Relubrication facility | - |

Rating

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

SCHAFFLER GROUP INDUSTRIAL **FAG**

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

This copy is not taken into account by the updating service.
The data are based on actual knowledge at the time of print and refer to the respective test method. Guaranteed properties or warranties cannot be taken over.

Edition: 15.01.2008

Available containers:

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



Special grease BIO2

BIO2 Special grease for ball bearings and roller bearings

Typical applications:

- Environmentally harmful applications

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

| SCHAFFLER GROUP INDUSTRIAL | | FAG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------|--|----------------------------|-----------------|------|-------|-------------|----------|--|----------|--|----------|-----------------------|---------|--|-----------------|--|--|--|------------|--|-----------------|--|-------------------|--|------------|--|--------------------|------|------------|-----------|-----------------------------|------|----|--|-----------------------------|----------------------|-------------|---------------|---------------------|----------|---------|--------------|-------------|------|-------|--------------|-------------------|---------|---|---------------|-----------------------------------|--------------|-----|-----------|----------------------------------|--------------|-----|-----------|---|--|--|-----------|--|-----|-------------|--------------|--------------|------|--|----------------------------|------------------|----------|---------|---------|
| FAG Rolling Bearing Grease Arcanol BIO2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Properties, applications: Bearing grease - rapidly biodegradable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Characteristics</th><th>Unit</th><th>Value</th><th>Test method</th></tr> </thead> <tbody> <tr> <td>Marking:</td><td></td><td>KPE2K-30</td><td></td></tr> <tr> <td>Density:</td><td>[kg/dm³]</td><td>ca. 0,9</td><td></td></tr> <tr> <td>Specifications:</td><td></td><td></td><td></td></tr> <tr> <td>Thickener:</td><td></td><td>mixed thickener</td><td></td></tr> <tr> <td>Type of base oil:</td><td></td><td>synth. oil</td><td></td></tr> <tr> <td>Temperature range:</td><td>[°C]</td><td>-30 to 120</td><td>DIN 51825</td></tr> <tr> <td>Longtime limit temperature:</td><td>[°C]</td><td>80</td><td></td></tr> <tr> <td>Base oil viscosity at 40°C:</td><td>[mm²/s]</td><td>≥ ISO VG 68</td><td>DIN 51562 - 1</td></tr> <tr> <td>Worked penetration:</td><td>[0,1 mm]</td><td>265-295</td><td>DIN ISO 2137</td></tr> <tr> <td>Drop point:</td><td>[°C]</td><td>≥ 180</td><td>DIN ISO 2176</td></tr> <tr> <td>Water resistance:</td><td>[Range]</td><td>0</td><td>DIN 51807 - 1</td></tr> <tr> <td>Corrosion Emcor Test: 1% NaCl:</td><td>[Corr. Grad]</td><td>0/0</td><td>DIN 51802</td></tr> <tr> <td>Copper corrosion after 24 h/ °C:</td><td>[Corr. Grad]</td><td>---</td><td>DIN 51811</td></tr> <tr> <td>FE8 tests run Wear behaviour 536050TVP - 7,5/80-RT</td><td></td><td>Running time 600 hours, no failure vWk50 ≤ 35mg</td><td>DIN 51819</td></tr> <tr> <td>FE9 tests run (grease service lifetime) A/1500/6000-120</td><td>[h]</td><td>F50 ≥ 100 h</td><td>DIN 51821-02</td></tr> <tr> <td>Speed range:</td><td>Unit</td><td>Ball bearings and cylindrical roller bearings</td><td>Other roller bearings*)</td></tr> <tr> <td>Speed limit n*dm</td><td>[mm/min]</td><td>300.000</td><td>200.000</td></tr> </tbody> </table> | | | | Characteristics | Unit | Value | Test method | Marking: | | KPE2K-30 | | Density: | [kg/dm ³] | 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: | [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] | 0 | DIN 51807 - 1 | Corrosion Emcor Test: 1% NaCl: | [Corr. Grad] | 0/0 | DIN 51802 | Copper corrosion after 24 h/ °C: | [Corr. Grad] | --- | DIN 51811 | FE8 tests run Wear behaviour 536050TVP - 7,5/80-RT | | Running time 600 hours, no failure 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 |
| Characteristics | Unit | Value | Test method | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marking: | | KPE2K-30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Density: | [kg/dm ³] | 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: | [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] | 0 | DIN 51807 - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Corrosion Emcor Test: 1% NaCl: | [Corr. Grad] | 0/0 | DIN 51802 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Copper corrosion after 24 h/ °C: | [Corr. Grad] | --- | DIN 51811 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FE8 tests run Wear behaviour 536050TVP - 7,5/80-RT | | Running time 600 hours, no failure 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

This copy is not taken into account by the updating service.
The data are based on actual knowledge at the time of print and refer to the respective test method. Guaranteed properties or warranties cannot be taken over.

Edition: 15.01.2008

Available containers:

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



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 | o |
| High loads, low speeds | o |
| Vibrations | o |
| Support for seals | o |
| Relubrication facility | ++ |
| Rating | |
| ++ extremely suitable | |
| + highly suitable | |
| o suitable | |
| - less suitable | |

| SCHAFFLER GROUP INDUSTRIAL | | FAG | | | |
|---|-----------------------|--|----------------------------|--|--|
| 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: 1% NaCl: | [Corr. Grad] | ≤ 1 | DIN 51802 | | |
| 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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Edition: 15.01.2008

Available containers:

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



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) ARCALUB.LC120-....-KIT (~LC250-....-KIT) ARCALUB-C6-250-KIT (~500-KIT) | ARCA.LUB.1M (~3M, ~6M, ~12M) ARCA.LUB.LC120.SET (~LC250.SET) ARCA.LUB.C6-250.KIT (~500.KIT) |

Notes

Notes

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TPI 168 GB-D