<table border="0" height="410" width="506"><tr><td rowspan="1" scope="" style="width: 500px;" dir="" id="" colspan="2" align="" lang="" valign="top">Bearings are reliable-longlife machine elements. The most common reason of disfunction <img src="images/stories/rudi/flag_bulgaria_sm.gif" title="in Bulgarian" mce_src="images/stories/rudi/flag_bulgaria_sm.gif" alt="in Bulgarian" align="right" border="1">
is the insufficient or unproper greasing of the ball bearings. The secure and proper flow of
grease is extremely important for their, and other machine elements functionality.</td></tr><tr><td colspan="1"> </td><td colspan="1"> </td></tr><tr><td align="justify"> Greases are used where a mechanism can only be lubricated infrequently and where a lubricating oil would not stay in position. They also act as valuable sealants to prevent ingress of water and dust. Grease-lubricated bearings have greater frictional characteristics due to their high viscosity. Under shear, the viscosity drops to give the effect of an oil-lubricated bearing of approximately the same viscosity as the base oil used in the grease. Lithium-based greases are the most commonly used; sodium and lithium based greases have higher melting point (dropping point) than calcium-based greases but are not resistant to the action of water. Lithium-based grease has a dropping point at 190 °C to 220 °C (350 °F to 400 °F). However the maximum usable temperature for Lithium-based grease is 120 °C. Grease used for axles are composed of a compound of fatty oils to which tar, graphite, or mica is added to increase the durability of the grease and give it a better surface. </td><td> <img src="images/stories/arcanol_ok.jpg" mce_src="images/stories/arcanol_ok.jpg" border="0"></td></tr><tr><td>
</td><td>
</td></tr></table>Greases from FAG, Germany <img src="images/stories/rudi/logo_header_fag.gif" mce_src="images/stories/rudi/logo_header_fag.gif" border="0"> <img src="images/stories/rudi/pdf_logo.gif" alt="">download as PDF file
<table style="height: 208px;" border="1" width="503"><tr><td align="center"> Name</td><td align="center"> Operating
Temperature °C </td><td align="center"> Technical specification
</td><td align="center">Thickener
Base oil
Base oil viscosity at 40 °C mm2/s</td></tr><tr><td align="center">MULTI2
</td><td align="center">-30...+140
</td><td align="center">Universal greasefor ball bearings
?D ? 62 mm in
small electric motors, agricultural and
construction machines,
household appliances
</td><td align="center">Lithium
soap
Mineral oil
100
</td></tr><tr><td align="center"> MULTI3</td><td align="center">-30...+140
</td><td align="center">Universal grease for ball bearings
?D > 62 mm
in large electric motors, agricultural and
construction machines,blowers
</td><td align="center">Lithium
soap
Mineral oil
80
</td></tr><tr><td align="center"> MULTITOP</td><td align="center">-40...+150
</td><td align="center"> Universal grease for ball and
roller bearings in rolling mills,
construction, machines, motor
vehicles, spinning and grinding
spindles at increased
speeds, high loads, low and high
temperatures
 </td><td align="center">Lithium
soap
with EP additives
Mineral oil+ester
85
</td></tr><tr><td align="center"> LOAD220</td><td align="center">-20...+140</td><td align="center"> Special grease for ball and
 roller bearings in rolling mills,
 rail

vehicles at high loads,
 large speed range, high degree of humidity
</td><td align="center">Lithium/
calcium soap
with EP additives
Mineral oil
ISO VG
220
</td></tr><tr><td align="center"> LOAD400</td><td align="center">-25...+140</td><td align="center">Special grease for ball and
roller bearings in mining machines,
construction machines at extreme loads,
medium temperature medium speeds
</td><td align="center"> Lithium/
 calcium soap
 with EP additives
 Mineral oil
 400
</td></tr><tr><td align="center"> LOAD1000</td><td align="center">-20...+140</td><td align="center">Special grease for ball and
roller bearings in mining machines,
construction machines, preferably
for shock loads and large bearings
at extreme loads, medium
temperatures, low speeds
</td><td align="center">Lithium/
calcium soap
with EP additives
Mineral oil
ISO VG
1000
</td></tr><tr><td align="center"> TEMP90</td><td align="center">-40...+160</td><td align="center">Special grease for ball and
roller bearings in couplings,
electric motors, motor vehicles at high
temperatures, high loads
</td><td align="center">Calcium
polyurea w
EP additive
PAO oil
130
</td></tr><tr><td align="center">TEMP110
</td><td align="center"> &#65533; -40 &#65533; 160 &#65533;&#65533;&#65533;&#65533;&#65533;/td><td align="center">Special grease for ball and
roller bearings in electric machines,
motor vehicles at high temperatures, high speeds
</td><td align="center">Lithium
complex soap
Ester oil
ISO VG
150
</td></tr><tr><td align="center"> TEMP200</td><td align="center">-40...+260</td><td align="center"> Special grease for ball and
 roller bearing in track rollers in baking
 machines, piston pins in compressors,
 kiln trucks, chem. plants
 at extremely high temp., chemically
 aggressive environments

</td><td align="center">PTFE
Fluor. poly. oil
400
</td></tr><tr><td align="center"> SPEED2.6</td><td align="center">-50...+120</td><td align="center">Special grease for ball bearings
in machine tools, instruments
at extremely high speeds,
low temperatures

</td><td align="center">Polyurea
PAO/ester oil
ISO VG
22
</td></tr><tr><td align="center"> FOOD2</td><td align="center">-30..+120</td><td align="center">Special grease for ball and
roller bearings
in applications with food
contact</td><td align="center">Aluminium
complex
soap
White oil
192
</td></tr></table><h3>
</h3> Greases from Stealit, Bulgaria <img src="images/stories/rudi/stealit.jpg" mce_src="images/stories/rudi/stealit.jpg" border="0"> <img src="images/stories/rudi/stealit_sm.jpg" alt="">
 <table border="1" width="500"><tr><td align="center">Name
</td><td align="center"> Operating
Temperature &#65533;C</td><td align="center"> Technical specification
</td><td align="center">Thickener
Base oil
Base oil viscosity at 40 &#65533;C mm2/s</td><td align="center"> Stock number and retail package
</td></tr><tr><td align="center"> Litol 24</td><td align="center"> -25...+120 </td><td align="center">Universal grease for ball bearings. Recommended for normal loads, and general purpose.</td><td align="center"> </td><td align="center"> 110201-400g
110202-800g
110203-3kg
110204-9.5kg</td></tr><tr><td align="center"> Calcium
&#65533;2</td><td align="center"> -20...+60 </td><td align="center"> Recommended for low and normal loads, low speeds, regular
anti friction grease for medium
temperatures and loads </td><td align="center">calcium soap, Mineral oil
32 - 46</td><td align="center">110205-400g
110206-800g
110207-3kg
110208-9.5kg
</td></tr><tr><td align="center">Graphite &#65533;2&#65533;/td><td

align="center"> -20...+60 </td><td align="center"> Recommended for low and normal loads, high and low speeds,
for greasing overload details
in normal temperatures.
 </td><td align="center">calcium soap, Mineral oil,
 46</td><td align="center">110209-400g
110210-800g
110211-3kg
110212-9.5kg
</td></tr><tr><td align="center"> Litel ◆2,◆3</td><td align="center"> -30...+130 </td><td align="center"> Recommended for normal loads, high speeds, for bearings and details working
in high rotating speeds and heavy loads. </td><td align="center">Lithium
soap, Mineral oil, 150</td><td align="center"> 110213-3kg ◆2
110214-9.5kg ◆2
110215-3kg ◆3
110216-9.5kg ◆3</td></tr><tr><td align="center">Litel U-3</td><td align="center"> -30...+120 </td><td align="center"> Recommended for heavy loads and high speeds for all kind of bearings and hinges
into the vehicle.
 </td><td align="center">Lithium
  soap, Mineral oil, 90</td><td align="center"> 110217-400g
110218-800g
110219-3kg
110220-9.5kg</td></tr><tr><td align="center">Litel MS</td><td align="center"> -25...+120 </td><td align="center"> Recommended for normal and heavy loads, good for high speeds
for bearings and joints for long-term use in heavy loads and usage. </td><td align="center">Lithium
  soap, Mineral oil with ◆◆◆◆with molybdenite disulfide, 130</td><td align="center">110221-300g </td></tr><tr><td align="center">Litel U-00</td><td align="center"> -20...+120 </td><td align="center"> Recommended
for normal and heavy loads, good for central greasing of heavy trucks. </td><td align="center">Lithium
  soap,
Mineral oil, 220</td><td align="center">110222-3kg
110291-9.5kg
</td></tr></table>