Typical Physical Characteristics

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

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**Shell Gadus S2 OGH 0/00**

*High Performance Open Gear and Wire Rope Grease*

Shell Gadus S2 OGH greases are designed for use in high temperature, open gear applications such as rotary cement kiln gears. The products are designed to be sprayed onto the kiln gears. Shell Gadus S2 OGH greases are based upon an inorganic non-soap thickener dispersed in a high viscosity base oil containing graphite.

**Performance, Features & Benefits**

- **High melting point**
  
  The inorganic thickener has a high melting point and performance is limited only by the properties of the oil and the additive components.

- **Excellent pumpability**
  
  Shell Gadus S2 OGH 0/00 can be readily pumped to allow easy distribution via spray systems onto the gear teeths.

- **Excellent load carrying capacity under severe conditions**
  
  Grease contains selected solid additives to ensure excellent resistance to shock loading.

- **Proven performance in large Cement plants**
  
  Very successful track records in some of the largest Cement plants.

**Main Applications**

- High temperature open gears
- Rotary cement kiln gears

**Specifications, Approvals & Recommendations**

- Ferry-Capitain
- FLSmidth
- Danieli

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

**Typical Physical Characteristics**

<table>
<thead>
<tr>
<th>Properties</th>
<th>Method</th>
<th>Shell Gadus S2 OGH Grease 0/00</th>
</tr>
</thead>
<tbody>
<tr>
<td>NLGI Consistency</td>
<td></td>
<td>0/00</td>
</tr>
<tr>
<td>Colour</td>
<td></td>
<td>Dark grey</td>
</tr>
<tr>
<td>Soap Type</td>
<td></td>
<td>Bentonite Clay</td>
</tr>
<tr>
<td>Base Oil (Type)</td>
<td></td>
<td>Mineral</td>
</tr>
<tr>
<td>Solid Lubricant</td>
<td></td>
<td>Graphite 15%</td>
</tr>
<tr>
<td>Base Oil Viscosity @40°C</td>
<td>cSt</td>
<td>ASTM D445 1000</td>
</tr>
<tr>
<td>Base Oil Viscosity @100°C</td>
<td>cSt</td>
<td>ASTM D445 42</td>
</tr>
<tr>
<td>Cone Penetration, Worked @25°C</td>
<td>0.1mm</td>
<td>IP 50 / ASTM D217 395</td>
</tr>
<tr>
<td>Dropping Point</td>
<td>°C</td>
<td>IP 396</td>
</tr>
<tr>
<td>Four Ball Test</td>
<td>kg</td>
<td>ASTM D2596 800</td>
</tr>
<tr>
<td>FZG Scuffing Test</td>
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<td>A/2.76/50 ISO 14635-3 12 pass</td>
</tr>
</tbody>
</table>

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Health, Safety & Environment

- Health and Safety
  Shell Gadus S2 OGH Grease is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.
  
  Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.
  
  Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from http://www.epc.shell.com/

- Protect the Environment
  Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

- Re-greasing Intervals
  For bearings operating near their maximum recommended temperatures, re-greasing intervals should be reviewed.

- Advice
  Advice on applications not covered here may be obtained from your Shell representative.