Typical Physical Characteristics

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

### Technical Data Sheet

#### Previous Names:
- Shell Albida Grease EP 2
- Shell Retinax LX 2
- Shell Gadus S3 V220C 2

**Shell Gadus S3 V220C 2**

**Premium multipurpose extreme-pressure grease**

Shell Gadus S3 V220C greases are premium multi-purpose greases based on high viscosity index mineral oil and a lithium complex soap thickener. They contain the latest additives to offer excellent high temperature oxidation performance and other additives to enhance its anti-oxidation, anti-wear and anti-corrosion properties. Shell Gadus S3 V220C greases are especially suitable for bearings operating at high temperature and under load.

#### Performance, Features & Benefits

- **Excellent mechanical stability even under vibrating conditions.**
  Consistency retained over long periods, even in conditions of severe vibration.

- **Enhanced extreme-pressure properties.**
  Excellent load-carrying performance.

- **Good water resistance.**
  Ensures lasting protection even in the presence of large amounts of water.

- **High dropping point.**

- **Long operational life at high temperatures.**

- **Effective corrosion protection.**
  Ensures components/bearings do not fail due to corrosion.

#### Main Applications

- Shell Gadus S3 V220C greases are used for the grease lubrication of heavy-duty bearings used in machinery found in the following applications:
  - Continuous casting
  - Vibrating sieves
  - Quarries
  - Breakers
  - Roller conveyors
  - Automotive Wheel bearings

#### Specifications, Approvals & Recommendations

- **ASTM D4950-07 LB-GC**

  For additional questions regarding equipment approvals and recommendations, please consult your local Shell Technical Helpdesk, or the OEM Approvals website.

### Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Method</th>
<th>Shell Gadus S3 V220C 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>NLGI Consistency</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Color</td>
<td></td>
<td>Red</td>
</tr>
<tr>
<td>Soap Type</td>
<td>Lithium complex</td>
<td></td>
</tr>
<tr>
<td>Base Oil Type</td>
<td>Mineral</td>
<td></td>
</tr>
<tr>
<td>Base Oil Viscosity @40°C</td>
<td>cSt</td>
<td>IP 71 / ASTM D445</td>
</tr>
<tr>
<td>Base Oil Viscosity @100°C</td>
<td>cSt</td>
<td>IP 71 / ASTM D445</td>
</tr>
<tr>
<td>Cone Penetration, Worked @25°C</td>
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<td>IP 50 / ASTM D217</td>
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<tr>
<td>Dropping Point @25°C</td>
<td>°C</td>
<td>IP 396</td>
</tr>
<tr>
<td>Pumpability Long Distance</td>
<td>Fair</td>
<td></td>
</tr>
</tbody>
</table>

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Health, Safety & Environment

- Health and Safety
  Shell Gadus S3 V220C 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 authorized 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
  Product recommendations for applications and specifications not covered here may be obtained from your Shell representative.