Shell Gadus S3 V460D 2

**Premium multi-purpose heavy duty grease with solids**

Shell Gadus S3 V460D greases are high performance high temperature greases for slow moving heavily loaded large bearings subject to shock loads. They are based on high viscosity index mineral oil and a lithium complex soap thickener. Apart from containing the latest additives to ensure excellent high temperature, anti corrosion & anti oxidation performance, they also contain solids to ensure the grease can handle shock loads.

**Performance, Features & Benefits**

- **High base oil viscosity to provide excellent load carrying performance**
  - Meets the recommended base oil viscosity recommended by leading OEMs.

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

- **Enhanced extreme-pressure properties & resistant to shock loads**
  - Excellent load-carrying performance enhanced by the presence of solids.

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

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

- **High dropping point**
  - Resistant to high temperatures.

**Specifications, Approvals & Recommendations**

Shell Gadus S3 V460D is listed by several leading OEMs:

- Komatsu Mining (Germany)
- Terex
- BE (certified)
- Dieffenbacher
- Konecranes
- CMI
- Flat Products Equipment
- Pfeiffer
- Voith Paper Environmental
- Rothe Erde

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

**Main Applications**

Shell Gadus S3 V460D greases are used for the grease lubrication of heavy-duty, slow moving bearings subject to shock loads found in the following industries:

- Mining
- Steel
**Typical Physical Characteristics**

<table>
<thead>
<tr>
<th>Properties</th>
<th>Method</th>
<th>Shell Gadus S3 V460D 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>NLGI Consistency</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Colour</td>
<td></td>
<td>Black</td>
</tr>
<tr>
<td>Soap Type</td>
<td></td>
<td>Lithium complex</td>
</tr>
<tr>
<td>Base Oil Type</td>
<td></td>
<td>Mineral</td>
</tr>
<tr>
<td>Kinematic Viscosity @40°C</td>
<td>cSt</td>
<td>ASTM D445</td>
</tr>
<tr>
<td></td>
<td></td>
<td>460</td>
</tr>
<tr>
<td>Kinematic Viscosity @100°C</td>
<td>cSt</td>
<td>ASTM D445</td>
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<tr>
<td></td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>Cone Penetration, Worked @25°C</td>
<td>0.1mm</td>
<td>ASTM D217</td>
</tr>
<tr>
<td></td>
<td></td>
<td>265-295</td>
</tr>
<tr>
<td>Dropping Point °C</td>
<td></td>
<td>IP 396</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt;240</td>
</tr>
<tr>
<td>Four Ball Weld Load Kg</td>
<td></td>
<td>ASTM D2596</td>
</tr>
<tr>
<td></td>
<td></td>
<td>620</td>
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</tbody>
</table>

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

**Health, Safety & Environment**

- **Health and Safety**
  
  Shell Gadus S3 V460D 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**

- **Operating Temperature**

  -20°C to +140°C (peak 150°C)

- **Advice**

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