

Previous Names: **Shell Alvania Grease EP(LF), Retinax EP**

# Shell Gadus S2 V220

## High Performance Multipurpose Extreme Pressure Grease

- **Reliable Protection**
- **Multipurpose**
- **Lithium**

Shell Gadus S2 V220 greases are high quality multipurpose, extreme-pressure greases based on a blend of high viscosity index mineral oils and a lithium hydroxystreate soap thickener and contain extreme-pressure and other proven additives to enhance their performance in a wide range of applications.

Shell Gadus S2 V220 greases are designed for multipurpose grease lubrication of rolling element and plain bearings as well as hinges and sliding surfaces such as those found in throughout most industrial and transport sectors

### Applications

Shell Gadus S2 V220 greases 0 are specifically designed for:

- Steel mill lubrication where a softer grease is necessary for specialised dispensing systems.
- Heavy duty plain and rolling element bearings operating under harsh conditions including shock loading in wet environments

Shell Gadus S2 V220 grease 1 is designed for:

- Heavy duty bearings served by centralised dispensing equipment
- Extreme-pressure gear grease for applications at normal ambient temperature
- Heavy duty plain and rolling element bearings operating under harsh conditions including shock loading in wet environments
- Low temperature greasing applications

### Shell Gadus S2 V220 greases 2 & 3

are designed for:

- Heavy duty bearings and general industrial lubrication
- Heavy duty plain and rolling element bearings operating under harsh conditions including shock loading in wet environments

- Operation over the temperature range - 20°C to 100°C for bearings operating at 75% of the maximum rated speed (Can withstand up to 120°C intermittently)

### Performance Features

- **Outstanding load carrying capacity**  
Shell Gadus S2 V220 greases contain special extreme-pressure additives which enable them to withstand heavy and shock loads without failure of the lubricant film.
- **Improved mechanical stability**  
This is particularly important in vibrating environments where poor mechanical stability can lead to grease softening with subsequent loss of lubrication performance and leakage.
- **Good resistance to water wash-out**  
Shell Gadus S2 V220 greases have been formulated to offer resistance to water wash-out
- **Oxidation stability**  
Specially selected base oil components have excellent oxidation resistance. Their consistency will not alter in storage and they withstand high operating temperatures without hardening or forming bearing deposits
- **Anti-corrosion protection**

Shell Gadus S2 V220 greases have an affinity with metal and have the ability to protect bearing surfaces against corrosion, even when the grease is contaminated with water.

### **Performance Specifications**

Meets ASTM D4950-08 LB

Meet the British Timken specification for Steel Mill applications

### **Re-greasing Intervals**

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

### **Health & Safety**

Shell Gadus S2 V220 greases are unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Shell Product Safety Data Sheet.

### **Note**

*Care should be taken to ensure that the grease does NOT come into contact with hydraulic brake rubber components.*

**Typical Physical Characteristics**

| <b>Shell Gadus S2 V220</b>   | <b>00</b>   | <b>0</b>    | <b>1</b>    | <b>2</b>    | <b>3</b>    |
|--|-------------|-------------|-------------|-------------|-------------|
| <b>Soap Type</b>   | Lithium     | Lithium     | Lithium     | Lithium     | Lithium     |
| <b>Base Oil</b>  | Mineral     | Mineral     | Mineral     | Mineral     | Mineral     |
| <b>Kinematic Viscosity</b><br>@ 40°C cSt<br>100°C cSt<br>(IP 71/ASTM-D445) | 220<br>19   | 220<br>19   | 220<br>19   | 220<br>19   | 220<br>19   |
| <b>Dropping Point</b><br>°C<br>(IP 132)                                    | -           | -           | 180         | 180         | 180         |
| <b>Cone Penetration</b><br>Worked @ 25°C 0.1mm<br>(IP 50/ASTM-D217)        | 400-<br>430 | 355-<br>385 | 310-<br>340 | 265-<br>295 | 220-<br>250 |

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