Technical Data Sheet

Formerly Known As: **Shell Alvania Grease EP(LF), Shell Retinax EP**

Shell **Gadus** ***S2 V220 3***

- Reliable Protection
- Multi-purpose Applications
- Lithium

High Performance Multipurpose Extreme Pressure Grease

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 hydroxystearate 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.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **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.

Main Applications



Shell Gadus S2 V220 3 greases 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 -15^{0}C to 120^{0}C for bearings operating at 75% of the maximum rated speed (Can withstand up to 130^{0}C intermittently).

Specifications, Approvals & Recommendations

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

Typical Physical Characteristics

Properties			Method	Shell Gadus S2 V220 3
NLGI Consistency				3
Soap Type				Lithium
Base Oil				Mineral
Kinematic Viscosity	@40°C	cSt	IP 71 / ASTM D445	220
Kinematic Viscosity	@100°C	cSt	IP 71 / ASTM D445	19
Cone Penetration, Worked	@25°C	0.1mm	IP 50 / ASTM D217	220-250
Dropping Point		°C	IP 396	180

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 S2 V220 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.

  Safety Data Sheet, which can be obtained from http://www.epc.shell.com/

- **Hydraulic Brake Rubber Components**

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

- **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.

- **Operating temperature**

  -15°C to +130°C