Technical Data Sheet

Formerly Known As: **Shell Alvania Grease EP(LF) 00, Shell Alvania Grease GL 00, Shell Retinax CS 00**

- Enclosed Gears & Centralized Systems
- Multi-purpose
- Lithium

Shell **Gadus** *S2 V220 00*

High Performance Multipurpose Extreme Pressure Semi-Fluid 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

- **Anti-wear and extreme pressure properties**

  Efficient lubrication of low load components

- **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.

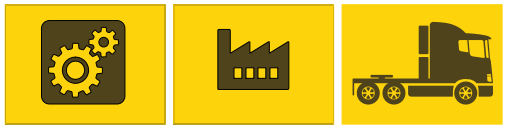
- **Good resistance to water wash-out**

  Shell Gadus S2 V220 00 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.

Main Applications



Shell Gadus S2 V220 00 greases 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 severe conditions including shock loading in wet environments.
- Gearbox applications where semi-fluid greases are required.
- Centralized chassis lubrication systems on trucks and buses.

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 00
NLGI Consistency				00
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	400-430
Dropping Point		°C minimum	IP 396	165
Four Ball Weld Load		Kg minimum	ASTM D2596	250

Properties			Method	Shell Gadus S2 V220 00
Low Temperature Flow Pressure	@-20°C	mbar maximum	DIN 51805	300

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 00 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 Safety Data Sheet, which can be obtained from https://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 and Dispensing**

  Easily dispensed through standard lubrication equipment.

- **Advice**

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

- **Operating Temperature Range:**

  –35°C up to 120°C in closed bearings