Technical Data Sheet

Formerly Known As: **Shell Albida Grease EP 2, Shell Retinax LX 2**

Shell **Gadus** *S3 V220C 2*

- Extra Protection
- High Temperature
- Red Lithium Complex

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.

DESIGNED TO MEET CHALLENGES

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:
- Vibrating sieves
- Quarries
- Continuous casting
- Roller conveyors
- Breakers
- Wheel bearings and other automotive applications

Specifications, Approvals & Recommendations

- Certified by NLGI according to HPM + HL
- Meet the requirement of NLGI Performance Classification GC-LB
- SEB 181 253
- MB 267.1
- DTFR 33B130

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

Typical physical characteristics

Properties			Method	Shell Gadus S3 V220C 2
NLGI Consistency				2
Colour				Red
Soap Type				Lithium complex
Base Oil Type				Mineral
Base Oil Viscosity	@40°C	cSt	IP 71 / ASTM D445	220
Base Oil Viscosity	@100°C	cSt	IP 71 / ASTM D445	19
Cone Penetration, Worked	@25°C	0.1mm	IP 50 / ASTM D217	265-295

Properties		Method	Shell Gadus S3 V220C 2
Dropping Point	°C	IP 396	240
Pumpability Long Distance			Fair
Four Ball Weld Load	Kg minimum	ASTM D2596	315

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 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 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**

  Operating temperature range -20°C to 140°C (peak 150°C)

- **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.