Technical Data Sheet

Previous Name: **Shell Albida SDM 1**

Shell Gadus *S3 V770D 1*

- *Heavy Duty Protection*
- *Bushings*
- *Lithium Complex*

Premium Multipurpose Heavy Duty Grease

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Cost Savings via**

  Reduced maintenance costs since lower bearing replacement rates can be achieved, as metal metal contact is prevented even under the most severe conditions, due the presence of special selected solid additives.

  Reduced grease consumption versus alternative greases, due to superior adhesiveness, better resistance to washout & vibration that result from Shell's "in house" formulation & manufacturing expertise.

  Reduce grease consumption even at high temperatures, as grease resists melting and subsequent leakage, as a result of the Lithium complex thickener used.

  Lower waste grease disposal costs that results from lower usage.

  Lower total labour costs, due to the extended lubrication intervals & less downtime that results from using a specialist, very high performance product.

- **Peace of Mind via**

  The knowledge that Shell is in FULL control from Research & Development to manufacture & quality assurance in our own ISO approved plants, which have often been audited and passed by quality conscious customers.

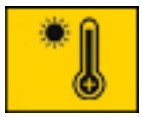
  Availability of Shell expertise, to assist in safely developing the cost savings available from the wide range of Shell products.

  No unexpected Product Health & Safety problems, as Shell always formulates with current & future HSE legislation in mind, thus Shell Gadus S3 V770D is free from lead & nitrite & does not require labelling (vs EC requirements).

  Proven product that have been demonstrated to work in a range of field applications, and especially under extreme shock/vibration levels (such as found in the main shaft bearing of rock crushers).

  Shell brand which guarantees professional standards & guaranteed back up whatever the lubrication problem.

Main Applications



- **Steel, Mining, Cement, Chemical Industry**

  Slow & very slow moving heavy-duty plain and rolling element bearings operating under following conditions:

- **Extremely high continuous loads & shock loads**
- **Water rich environments**
- **High speed (>200 rpm) flexible gear couplings**

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 S3 V770D 1
NLGI Consistency				1
Colour				Black
Soap Type				Lithium complex
Base Oil (type)				Mineral
Kinematic Viscosity	@40°C	cSt	IP 71 / ASTM D445	770
Kinematic Viscosity	@100°C	cSt	IP 71 / ASTM D445	39
Dropping Point		°C	IP 396	240
Cone Penetration, Worked	@25°C	0.1 mm	IP 50 / ASTM D217	320

Properties	Method	Shell Gadus S3 V770D 1
Pumpability Long Distance		Good

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 V770D 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 Range**

  Shell Gadus S3 V770D is recommended for use over the temperature range -20°C to 150°C

- **Advice**

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