



## Technical Data Sheet

Previous Name: Shell Malleus Grease JB 2

# Shell Gadus S2 U1000D 2

- Heavy Duty Protection
- High Temperature
- Clay

### High Performance Heavy Duty Plain Bearing Grease

Shell Gadus S2 U1000D Greases are heavy duty, high temperature, industrial greases for arduous slow speed plain bearing applications. They are based on an inorganic non-soap thickener dispersed in a very high viscosity base oil containing molybdenum disulphide (MoS<sub>2</sub>)

Shell Gadus S2 U1000D Greases will lubricate satisfactorily and give good service life at operating temperatures up to 200°C. They are especially useful where heavy wear has occurred or access is difficult.

## DESIGNED TO MEET CHALLENGES

### Performance, Features & Benefits

- **High melting point**  
The inorganic thickener has a high melting point and performance is limited only by the properties of the oil and the additive components.
- **Low grease loss**  
The specially treated thickener minimises grease loss from bearings by reducing the tendency for the base oil to exude from the grease at elevated temperatures.
- **Low volatility and excellent oxidation stability**  
Features which enable the grease to give good service life in journal bearings operating at temperatures between 10°C and 200°C.
- **Good lubrication and a low coefficient of friction**  
Finely dispersed, small particle size, molybdenum disulphide acts as a solid lubricant to provide good lubrication and a low coefficient of friction under extreme operating conditions.

### Main Applications



- Plain bearings
  - Pivot pins
  - Sleeves
  - Open gears
  - Grate type feeder bearings
  - Cement mill journals
  - Sugar mill bearings
  - Kiln car castors
  - Furnace door gear
  - Drying kiln mechanisms
  - Slow speed cams and followers
- Shell Gadus S2 U1000D 2 Grease is NOT recommended for rolling element bearings.

### Specifications, Approvals & Recommendations

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk, or the OEM Approvals website.

### Typical Physical Characteristics

Properties			Method	Shell Gadus S2 U1000D 2
NLGI Consistency				2
Colour				Dark grey
Soap Type				Bentonite Clay
Base Oil (Type)				Mineral
Base Oil Viscosity	@40°C	cSt	ASTM D445	1000
Base Oil Viscosity	@100°C	cSt	ASTM D445	42

Properties			Method	Shell Gadus S2 U1000D 2
Cone Penetration, Worked	@25°C	0.1mm	ASTM D217	265-295
Dropping Point		°C	IP 396	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 U1000D 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

#### ■ 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.