



Previous Name: Shell Malleus Grease GL 400

# Shell Gadus S2 OG 80

- *Reliable Wear Protection*
- *Corrosion Protection*

## Superior Performance Open Gear Greases

Shell Gadus S2 OG greases are a range of premium quality lead and solvent free, full EP lubricants developed for the lubrication and protection of open gears and wire ropes subjected to extremes of ambient temperature and operating conditions.

They are a unique blend of high quality paraffinic mineral and synthetic base oils with carefully selected additives to provide optimum performance. Its balanced formulation allows the lubricant to stay soft and pliable over long periods, thus eliminating the build-up of lubricant in the roots of the gear teeth.

## DESIGNED TO MEET CHALLENGES

### Performance, Features & Benefits

- **Exceptional physical and mechanical stability**  
Shell Gadus S2 OG retains its natural protective properties over its long working life.
- **Excellent anti-wear performance**  
At working temperatures, speeds and pressures, Shell Gadus S2 OG forms a protective cushion between the large gear (girth, bull etc) and pinion teeth.
- **Superb load carrying capacity**  
Molybdenum disulphide and other solid lubricants combine to reduce tooth contact zone temperatures, reduce gear surface pitting and alleviate 'stick-slip' conditions.
- **Water repellent**  
Effectively resists water 'wash-off' by immersion or spray.
- **Corrosion protection**  
Protects metal surfaces from corrosion in hostile environments such as salt-water conditions. Repels dirt and dust.
- **Environmental compliance**  
Lead and solvent haven't been added intentionally to Shell Gadus S2 OG 80.

### Main Applications



- Heavily loaded open gears, particularly those found in grinding mills, kilns, shovels, draglines, ship loaders, stackers and reclaimers and excavator applications. When choosing a product to suit your ambient temperature conditions, always consult with your Shell representative for the appropriate grade.
- Multi service lubricant that can be used as the one grease (multi purpose and open gear) for the entire machine on most shovels, excavators and draglines (excluding electrical motors bearings).
- Surface dressing of slow moving gears open to the atmosphere.
- Plain bearings, pivot pins/bushings & articulations found in earth moving equipment.
- Mooring, static and slow moving wire ropes including those intermittently immersed in salt water.
- Wide variety of heavy-duty mining and industrial applications.

### Specifications, Approvals & Recommendations

- FLSmidth
- Norberg
- Ferry Captain
- Falk
- Lincoln

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

## Typical Physical Characteristics

Properties			Method	Shell Gadus S2 OG 80
Grade				80
Soap Type				Clay
Base Oil Kinematic Viscosity	@100°C	mm <sup>2</sup> /s	ISO 3016	80
Base Oil Kinematic Viscosity	@40°C	mm <sup>2</sup> /s	ISO 3016	1600
Density	@15°C	kg/m <sup>3</sup>	ISO 12185	1018
Flash Point COC		°C	ASTM D92 / ISO 2592	min 130
Four Ball Extreme Pressure Test, Weld Load		N	ASTM D2596	8000
Four Ball Extreme Pressure Test, Scar Diameter		mm	ASTM D2266	max 0.68
Timken, OK Load (without solids)		lbs	ASTM D2509	min 50
Copper Strip Corrosion	rating		ASTM D4048	1b max
Rust Protection			ASTM D1743	Pass
Falex Continuous Load, Failure		N	ASTM D3233	min 20450

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 OG 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

### • Advice

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