Technical Data Sheet

Formerly Known As: **Shell Darina Grease SD 2**

Shell **Gadus** *S2 U1000 2*

- Heavy Duty Protection
- High Temperature
- Bentonite Clay

High Performance Heavy Duty Grease

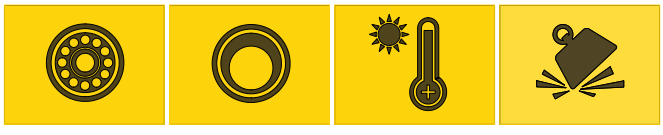
Shell Gadus S2 U1000 greases are multipurpose, non-soap greases. They give excellent lubrication for extended time periods, in wet or dry applications, and over a wide range of temperatures. They are also formulated to provide extreme pressure (EP) characteristics.
Shell Gadus S2 U1000 greases are based on a non-melting bentonite clay thickener system. Due to the inert nature of the clay, these greases are suitable for applications where the lubricant is exposed to contaminants such as water and chemicals found in many industrial applications including chemical plants and paper mills. These greases are not recommended for use in centralized lubrication systems.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- Non-melting.
- Excellent resistance to water washout.
- Good load carrying capability.
- Good resistance to rust and corrosion.

Main Applications



- Industrial grease lubricated machinery at temperatures up to 250°F (350°F with frequent lubrication).
- Ball, roller and sleeve bearings, as well as sliding surfaces and grease lubricated gears.
- Wet and heavily loaded applications.
- Chemical plants and paper mills, where grease is exposed to very wet conditions.
- Mining and process plants, where crushers, screens and kilns are operated at high temperatures.

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 U1000 2
NLGI Grade				2
Thickener Type				Bentonite Clay
Appearance				Brown, Smooth
Viscosity	@40°C	cSt	ASTM D445	1 000
Viscosity	@100°C	cSt	ASTM D445	90
Penetration, dmm Worked, 60X			ASTM D217	265 - 295
Dropping Point		°F / °C	Mettler	400+ / 205+
Copper Corrosion			ASTM D4048	1b
Rust Test, Distilled Water			ASTM D1743	Pass
Oil Separation, wt%			ASTM D1742	<3
Water Washout, wt% loss	@175°C		ASTM D1264	<5
Water Spray-off wt%			ASTM D4049	<10
Timken, OK Load, N			ASTM D2509	200

Properties			Method	Shell Gadus S2 U1000 2
Weld Point		kgf	ASTM D2596	250
Four-Ball Wear (1 hr, 1200 rpm, 40 kgf)	@75°C	mm	ASTM D2266	0.6

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 U1000 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

- **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.