



# Shell Gadus S3 U220A 1

- Heavy Duty Protection
- Calcium Sulfonate Complex
- Water Resistant

**Multi-purpose calcium sulfonate complex grease for steeland heavy duty industrial bearing applications**

Shell Gadus S3 U220A 1 is part of Shell's comprehensive range of multi-purpose greases for industrial and general purpose bearings applications. The product offers excellent performance in normal speed applications that experience sustained heavy loads and elevated temperatures. The product provides excellent corrosion protection, mechanical stability and oxidative resistance, making it well suited for applications where long grease life and water resistance in the presence of elevated operational temperatures is necessary.

## DESIGNED TO MEET CHALLENGES

### Performance, Features & Benefits

- **Enhanced load-carrying and wear protection properties**  
Offers excellent extreme pressure and anti-wear performance for heavily loaded slow and normal speed bearings.
- **Excellent mechanical stability even in challenging conditions**  
Consistency retained during extended operating periods, even when exposed to severe mechanical shear and vibration.
- **Effective in wet conditions**  
Ensures lasting performance even in the presence of heavy water contamination and provides excellent corrosion resistance.
- **Exhibits oxidative resistance**  
Suitable for use where there are high continuous bearing operating temperatures.

### Main Applications



Shell Gadus S3 U220A 1 is primarily intended for the lubrication of heavy-duty, slow to normal speed bearing applications in industrial settings:

- Wet Environment
- Slow to moderate speed general purpose industrial bearing applications

### 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 U220A 1
NLGI Consistency				1.5
Colour				Beige
Thickener type				CaS Complex
Base oil type				Mineral
Kinematic Viscosity	@40°C	cSt	IP 71 / ASTM D445	220
Kinematic Viscosity	@100°C	cSt	IP 71 / ASTM D445	15
Cone Penetration Worked	@25°C	0.1 mm	IP 50 / ASTM D217	290 - 315
4 Ball EP test			IP 239	500
Dropping Point			ASTM D2265	250
Water Washout	@79°C	% maximum	ASTM D1264	10

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 U220A 1 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**

Recommended operating temperature range -15°C to +150°C

- **Advice**

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