



Formerly Known As: Duralife 460HD 1

Shell Gadus S3 U460AC 1

- Heavy Duty Protection
- Calcium Sulfonate Complex
- Water Resistance

Multi-purpose calcium sulfonate complex grease for steel and heavy-duty industrial applications

Shell Gadus S3 U460AC 1 is part of Shell’s comprehensive range of multi-purpose greases for industrial bearing applications. The product offers excellent performance in moderate to slow 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 tough steel mill applications or wherever water resistance is required.

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 moderate 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 U460AC 1 is primarily intended for the grease lubrication of heavy-duty, slow-moving bearing applications in steel and industrial settings:

- Pellets mill (press roll and main bearing)
- Steel mill general purpose bearing applications (Concaster, HSM, RM)

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 U460AC 1	
NLGI Consistency				1	
Colour				Green	
Thickener type				CaS Complex	
Base Oil (type)				Mineral	
Kinematic Viscosity	@40°C	cSt	IP 71 / ASTM D445	460	
Kinematic Viscosity	@100°C	cSt	IP 71 / ASTM D445	25	
Cone Penetration Worked	@25°C	0.1 mm	IP 50 / ASTM D217	310-340	
Dropping Point			°C minimum	ASTM D2265	250
Four Ball EP Weld Point			kg	ASTM D2596	620
Four Ball Wear Scar			mm maximum	ASTM D2266	0.6

Properties			Method	Shell Gadus S3 U460AC 1
Water washout	@38°C	% maximum	ASTM D1264	5

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 U460AC 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 -10°C to 150°C

- **Advice**

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