



Technical Data Sheet

- Heavy Duty Protection
- Calcium Sulfonate Complex

Shell Gadus S3 U460A 1.5

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

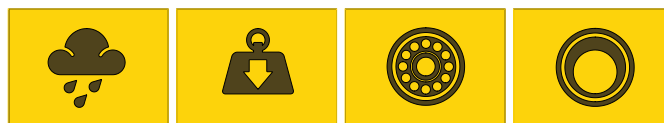
Shell Gadus S3 U460A 1.5 is part of Shell's comprehensive range of multi-purpose greases for steel and industrial bearings. The product offers excellent performance in moderate to slow speed applications that experience sustained heavy loads.

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.
- **Multi-season use or flexible seasonal change-overs**
Suitable for warm weather use (all ambient temperatures down to 0°C / 32°F). There is a broad overlap in operating temperatures between this grease and complimentary grades in the Gadus family of greases, allowing for flexible seasonal transitions if necessary.

Main Applications



Shell Gadus S3 U460A 1.5 is primarily intended for the grease lubrication of heavy-duty, slow-moving bearings in steel and heavy-duty industrial bearing applications such as

- Steel (Concaster, HSM, HRM)
- Pellets mill (working bearing)
- Pulp and paper (wet end, grinding and pulper, press, etc.)
- Mining and cement (Crusher, grinding, roller press, conveyors, mill bearings)

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 U460A 1.5
NLGI Consistency				1.5
Colour				Brown
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	40
Cone Penetration Worked	@25°C	0.1 mm	IP 50 / ASTM D217	290 - 320
4 Ball EP test		kg	IP 239	500
Dropping Point		°C minimum	ASTM D2265	260
Water washout	@79°C	% maximum	ASTM D1264	5

Properties		Method	Shell Gadus S3 U460A 1.5
Four ball wear scar	mm maximum	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 S3 U460A 1.5 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 -5°C to 150°C

• Advice

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