



Formerly Known As: Duralife 460M

Shell Gadus S3 U460AD 1

- Heavy Duty Protection
- Calcium Sulfonate Complex
- Water Resistant

Multi-purpose calcium sulfonate complex grease for steel, heavy-duty industrial applications and off-road construction equipment

Shell Gadus S3 U460AD 1 grease is part of Shell's comprehensive range of multi-purpose greases for industrial bearing and off-road pin and bushing applications. The product offers excellent performance in moderate to slow speed applications that experience sustained heavy loads and elevated temperatures where shock loading is possible. The product provides excellent corrosion protection, mechanical stability and oxidative resistance, making it well suited for tough applications or wherever resistance to shock loading and water ingress 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 temperature

Main Applications



Shell Gadus S3 U460AD 1 is primarily intended for the grease lubrication of heavy-duty, slow-moving bearing applications in steel and industrial settings:

- Off-road mining and construction multi-purpose grease (pins and bushings)
- Slow-speed general purpose bearing applications
- Mining and cement (Crusher, grinding, roller press, conveyors)

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 U460AD 1
NLGI Consistency				1
Colour				Black
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	26
Cone Penetration, Worked	@25°C	0.1 mm	IP 50 / ASTM D217	310-340
4 Ball EP test			IP 239	620
Dropping Point			ASTM D2265	260

Properties			Method	Shell Gadus S3 U460AD 1
Water Washout	@79°C	% maximum	ASTM D1264	5
Four ball wear scar		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 S3 U460AD 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 -5°C to +150°C

- **Advice**

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