



- Heavy Duty Protection
- Calcium Sulfonate Complex

Shell Gadus S3 U460AXD 2

Multi-purpose grease with 5% molybdenum disulphide for mining and heavy-duty equipment applications.

Shell Gadus S3 U460AXD 2 grease is part of Shell's comprehensive range of multi-purpose mining and construction equipment greases, which offer protection from sustained heavy duty operations and shock loads in all climates and seasons.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Enhanced load-carrying and wear protection properties**

Contains 5% moly and other additives to handle shock loads and sustained heavy loads. High viscosity base oil to maintain lubricant film under pressure.

- **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 large amounts of water, and provides excellent corrosion resistance.

- **Multi-season use or flexible seasonal change-overs**

Suitable for warm weather use (all ambient temperatures down to -5°C or 23°F). There is a broad overlap in operating temperatures between this grease and others in the range, allowing for flexible seasonal transitions.

Main Applications



Shell Gadus S3 U460AXD 2 is primarily intended for the grease lubrication of heavy-duty, slow-moving components such as pins and bushes, and sliding surfaces. It is designed for use in large mobile equipment in the mining industry and sectors such as quarrying and heavy construction.

Specifications, Approvals & Recommendations

- Bucyrus International SD 4711

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Typical Physical Characteristics

Properties			Method	Shell Gadus S3 U460AXD
NLGI Consistency				2
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	31
Cone Penetration Worked	@25°C	0.1 mm	IP 50 / ASTM D217	265 - 295
4 Ball EP test			IP 239	620
Dropping Point			°C minimum	280
Water washout	@79°C	% maximum	ASTM D1264	5
Four ball wear scar			mm maximum	0.6

These characteristics are typical of current production. While future production will conform to Shell's specification, variations in these characteristics may occur.

Health, Safety & Environment

- **Health and Safety**

Shell Gadus S3 U460AXD 2 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.