



Technical Data Sheet

- Heavy Duty Protection
- Calcium Sulfonate Complex
- Water Resistance
- Green

Shell Gadus S3 U150AC 1

Multi-purpose calcium sulfonate complex grease for difficult heavy duty industrial applications such as extreme pressure, water, heat, or chemical attack.

Shell Gadus S3 U150AC 1 is part of Shell's comprehensive range of multi-purpose greases for industrial bearing applications. The product offers excellent performance in challenging conditions as found in e.g. pulp&paper, shipping industry and pellet mills.

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.
- **Corrosion Protection**
Helps neutralize acids and also resists reacting with caustic materials

Main Applications



Shell Gadus S3 U150AC 1 is primarily intended for the grease lubrication of heavy-duty industrial bearing applications such as:

- Pellets mill (press roll and main bearing)
- Pulp&Paper general purpose bearing applications
- Mining and cement (Crusher, grinding, roller press, conveyors, mill bearings)
- Outdoor and Marine applications (outdoor cranes, ship lifts, boat trailer)
- High temperature applications (oven conveyer bearings, plastic extruder bearings, rotary unions and roto-molders)

Specifications, Approvals & Recommendations

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

Meets the Bucyrus International specification for multipurpose grease (SD 4711).

Typical Physical Characteristics

Properties			Method	Shell Gadus S3 U150AC 1
NLGI Consistency				1
Colour				Green
Thickener type				CaS Complex
Base Oil (type)				Mineral
Kinematic Viscosity	@40°C	cSt	IP 71 / ASTM D445	150 w/o polymer
Kinematic Viscosity	@40°C	mm ² /s	IP 71 / ASTM D445	1400 with polymer
Kinematic Viscosity	@100°C	cSt	IP 71 / ASTM D445	12 w/o polymer

Properties			Method	Shell Gadus S3 U150AC 1
Cone Penetration, Worked	@25°C	0.1 mm	IP 50 / ASTM D217	310 - 340
Four Ball EP Weld Point		kgf	ASTM D2596	800
Dropping Point		°C	IP 132	270
Four Ball Wear Scar		mm	ASTM D2266	0.48
Timken EP Test, OK Load		lbs	ASTM D2509	50
Low Temperature Pumpability (Lincoln Ventmeter)		°C		-11 (12°F) @400psi

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 U150AC 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 -20°C to +200°C

• Advice

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