



# Shell Gadus S4 OGT

- Superior Wear Resistance
- Long Life
- Aluminum Complex

Advanced Open Gear and Wire Rope Grease

Shell Gadus S4 OGT is primarily designed for use in very heavy applications, and operations under hot weather conditions, in mining equipment, shovels, draglines and excavators in open cut operations.

Gadus S4 OGT is based upon an Aluminium Complex soap thickener dispersed in a high viscosity, very high quality mineral base oil containing enhanced extreme pressure – antiwear chemistry.

## DESIGNED TO MEET CHALLENGES

### Performance, Features & Benefits

- **Excellent load carrying capacity under severe operation conditions**

Grease contains selected components to ensure excellent resistance to shock and permanently heavy loads.

- **Very high mechanical and thermal stability**

Grease thickener structure is designed to resist mechanical stress and high temperature.

- **Withstanding severe operation conditions**

like dust and dirt contamination, water, and changes in temperature. Gadus S4 OGT is optimized for the use in ambient temperatures between -10°C and +50°C. If equipment operates in other ambient, Gadus S4 OG MS or Gadus S4 OGXK should be considered.

- **Maintain adhesive characteristic over time**

Thanks to advanced polymer technology ensuring durable protection. Forms a dark coating on metal surfaces that is adhesive and highly water resistant.

- **Low Friction**

Selected components ensure low friction characteristics, lower energy consumption and wear reduction.

- **Environmental compliance**

Shell Gadus S4 OGT is formulated without chlorinated solvent or lead.

### Main Applications



- Open gears on draglines, shovels, excavators, stackers and reclaimers
- Stickshifts
- Circle Rail and rollers
- Heavily loaded, slow moving antifriction bearings
- Bushings
- Slow moving wire rope
- Open gears in Industrial sector such as cement, waste treatment or steel industry

### Specifications, Approvals & Recommendations

Shell Gadus S4 OGT is designed to meet the following specifications:

- Bucyrus SD 4713 (rev June 2011)
- P&H 464 Ver 09, 04-93
- P&H 520 Ver 00, 03-97
- CAT Service Advisory SA 11-005 SD 4713 updated 14th June '11

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

### Typical Physical Characteristics

Properties	Method	Shell Gadus S4 OGT
NLGI Consistency		0
Colour		Black
Soap Type		Al Complex
Base Oil (type)		High Quality Mineral

Properties			Method	Shell Gadus S4 OGT
Solid Lubricant				Yes
Base Viscosity	@40°C	cSt	ASTM D445	5500
Cone Penetration	@25°C	0.1mm	ASTM D217	355 to 385
Four Ball Weld Load			ASTM D2596	800
Four Ball Wear Scar			ASTM D2266	0.7
Four Ball Load Wear Index (LWI)			ASTM D2596	120
Flash Point of base fluid			ASTM D92	150
Rust Test			ASTM D1743	Pass
Copper Strip	3h @	100°C	ASTM D4048	1b
Pumpability, Lincoln Ventmeter	@-7°C	seconds maximum	Time to vent from 1800 psi to less than or equal to 600 psi	30
Flow Pressure	@-10°C	mbar maximum	DIN 51805	1400

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 S4 OGT 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 Material Safety Data Sheet, which can be obtained from <http://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

### • Operation Temperatures

General maximum operating temperature +140°C if not restricted by specific equipment / application requirements.

### • Advice

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