



### Technical Data Sheet

- Wear Resistance
- Long Life
- Aluminum Complex

# Shell Gadus S2 OGXK

## Low Temperature Open Gear and Wire Rope Grease

Shell Gadus S2 OGXK is primarily designed for use in severe cold-weather conditions, in mining equipment, shovels, draglines and excavators in open cut operations.

Shell Gadus S2 OGT is based on Aluminium Complex soap thickener with medium and high viscosity mineral base oil containing enhanced extreme pressure and antiwear chemistry. Diluent is used to ensure low-temperature pumpability.

### DESIGNED TO MEET CHALLENGES

#### Performance, Features & Benefits

- **Good 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 good thermal stability**  
Grease thickener structure is designed to resist mechanical stress.
- **Withstanding severe operation conditions**  
Like dust and dirt contamination, water, and changes in temperature. Shell Gadus S2 OGXK is optimized for use in ambient temperatures between - 45°C to +10°C.
- **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 S2 OGXK 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
- Open gears in Industrial sector such as cement, waste treatment or steel

#### 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 S2 OGXK
NLGI Consistency		00/000
Colour		Black
Soap Type		Al Complex
Base Oil (type)		Mineral
Solid Lubricant		Yes
Base Oil Viscosity	@40°C cSt	ASTM D445 2 500

Properties			Method	Shell Gadus S2 OGXK
Cone Penetration	@25°C	0.1mm	ASTM D217	425 - 455
Four Ball Weld Load		kg minimum	ASTM D2596	800
Four Ball Wear Scar		mm maximum	ASTM D2266	0.7
Four Ball Load Wear Index (LWI)		kg minimum	ASTM D2596	120
Rust Test			ASTM D1743	Pass
Copper Strip	24h @ 100°C		ASTM D4048	2e
Pumpability, Lincoln Ventmeter	@-45°C	sec maximum	Time to vent from 1800 psi to less than or equal to 600 psi	30

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 S2 OGXK 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

- **Operation Temperatures**

General maximum operating temperature +130°C if not restricted by other equipment/application.

- **Advice**

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