



## Technical Data Sheet

- Lithium
- Low Friction
- Special Applications

# Shell Gadus S4 V80XE 00

## Speciality Low Friction, Low Wear Grease

Shell Gadus S4 V80XE 00 is a premium performance grease designed for the use in specific industry applications which require not only low friction performance but also excellent protection from wear as required for example in Robot RV Reducers.

Shell Gadus S4 V80XE 00 is a lithium soap grease based on refined mineral and synthetic oils and has been formulated to offer excellent performance in arduous conditions. The additive combination offers extremely low levels of friction and wear providing customers significant benefits.

## DESIGNED TO MEET CHALLENGES

### Performance, Features & Benefits

- Excellent protection from wear provides reliable operation and extended equipment life
- Low friction greases run cooler, with lower vibrations, noise and harshness levels and allow for optimized use of applications
- Extended Service Life
- **Shell patented technology**

Unique low-friction technology only available from Shell.

### Main Applications



- Industry applications where a soft grease with good low friction characteristics and excellent anti-wear performance is required to provide long service life.

### 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 S4 V80XE 00
NLGI Consistency				00
Colour				Light Brown
Soap Type				Lithium
Base Oil (type)				Mineral
Penetration, worked	@25°C	0.1mm	ASTM D217	400-430
Base Oil Viscosity	@40°C	mm <sup>2</sup> /s	ASTM D445	80
Base Oil Viscosity	@100°C	mm <sup>2</sup> /s	ASTM D445	9
Dropping Point			ASTM D566	180
Copper Corrosion	24 hrs @100°C	maximum	ASTM D4048	1b
Oxidation Stability	100hrs @99°C	kPa maximum	ASTM D942	35
Low Temperature Torque - Run	@-40°C	N.m typical	ASTM D1478	0.087
Low Temperature Torque - Start	@-40°C	N.m typical	ASTM D1478	0.23
Four Ball Wear Test Scar Diameter	1hr, 1200 rpm, 40kg @75°C	mm maximum	ASTM D2266	0.5
Four Ball Test Scar Diameter	1hr, 1200 rpm, 40kg @75°C	mm typical	ASTM D2266	0.4
Four Ball Weld Load			ASTM D2596	250

Properties	Method	Shell Gadus S4 V80XE 00
Four Ball Load Wear Index	ASTM D2596	40

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 V80XE 00 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 <http://www.epc.shell.com>

- **Protect the Environment**

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

- **Operating Temperature Range**

-40°C to +130°C

## Additional Information

- **Advice**

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