Technical Data Sheet

Shell Gadus *S5 V460 00*

- *Heavy Duty Protection*
- *Wide Temperature Range*
- *Lithium Complex*

Advanced Multipurpose Heavy Duty Grease

Shell Gadus S5 V460 00 is a multipurpose extreme pressure lithium complex grease for a wide range of bearing lubrication applications. It is based on high viscosity synthetic base oil, PAO, and a lithium complex soap thickener with the latest in additive technology. It has excellent thermal stability and operates very well across both high and low temperatures.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- Excellent thermal stability
- Outstanding shear stability due to base oil mix without use of VI improver, which is particularly beneficial in closed gear applications
- Long operational life across both high and low temperatures
- Excellent corrosion protection
- Very good oxidation stability

Main Applications

- Heavy duty transport and industrial applications where bearings operate under heavy loads, and in severe conditions
- Paper mill dry ends or other applications requiring non-staining grease
- Truck wheel hubs
- Enclosed gears

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 S5 V460 00
NLGI Consistency				00
Soap Type				Lithium Complex
Base Oil (type)				Synthetic
Kinematic Viscosity	@40°C	cSt	ASTM D445	460
Kinematic Viscosity	@100°C	cSt	ASTM D445	45
Cone penetration, Worked	@25°C		ASTM D217	400-430
Dropping Point			IP 396	240
Four Ball Weld Load		Kg	ASTM 2596	min.315
Emcor Rust protection rating Synthetic Seawater (SWW)			ASTM D6138	1/1

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 S5 V460 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 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

- **Re-greasing Intervals**

  For bearings operating near their maximum recommended temperatures, re-greasing intervals should be reviewed

- **Advice**

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

- **Operating Temperature**

  -50^{0}C to 80^{0}C in standard applications, and up to 140^{0}C in tightly sealed gearboxes.