Technical Data Sheet

Formerly Known As: **Shell Albida Grease HDX 2 , Shell Retinax CMX 2**

Shell **Gadus** ***S3 V460D 2***

- Heavy Duty Protection
- High Temperature
- Lithium Complex

Premium multi-purpose heavy duty grease with solids

Shell Gadus S3 V460D greases are high performance high temperature greases for slow moving heavily loaded large bearings subject to shock loads. They are based on high viscosity index mineral oil and a lithium complex soap thickener. Apart from containing the latest additives to ensure excellent high temperature, anti corrosion & anti oxidation performance, they also contain solids to ensure the grease can handle shock loads.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **High base oil viscosity to provide excellent load carrying performance**

  Meets the recommended base oil viscosity recommended by leading OEMs.

- **Excellent mechanical stability even under vibrating conditions**

  Consistency retained over long periods, even in conditions of severe vibration.

- **Enhanced extreme-pressure properties & resistant to shock loads**

  Excellent load-carrying performance enhanced by the presence of solids.

- **Excellent water resistance**

  Ensures lasting protection even in the presence of large amounts of water.

- **Effective corrosion protection**

  Ensures components/bearings do not fail due to corrosion.

- **High dropping point**

  Resistant to high temperatures.

Main Applications



Shell Gadus S3 V460D greases are used for the grease lubrication of heavy-duty, slow moving bearings subject to shock loads found in the following industries:

- Mining
- Steel

Specifications, Approvals & Recommendations

Shell Gadus S3 V460D is listed by several leading OEMs:

- Komatsu Mining (Germany)
- Terex
- BE (certified)
- Dieffenbacher
- Konecranes
- CMI
- Flat Products Equipment
- Pfeiffer
- Voith Paper Environmental
- Rothe Erde

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

Typical Physical Characteristics

Properties			Method	Shell Gadus S3 V460D 2
NLGI Consistency				2
Colour				Black
Soap Type				Lithium complex
Base Oil Type				Mineral
Kinematic Viscosity	@40°C	cSt	ASTM D445	460
Kinematic Viscosity	@100°C	cSt	ASTM D445	31
Cone Penetration, Worked	@25°C	0.1mm	ASTM D217	265-295
Dropping Point		°C	IP 396	>240
Solid Lubricant				3%
Four Ball Weld Load		Kg	ASTM D2596	620

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 V460D grease 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

- **Operating Temperature**

  -20°C to +140°C (peak 150°C)

- **Advice**

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